UNC Funds Carolina Campus Community Garden

In August we received news that the University of North Carolina Budget Committee granted funding that secures our staff position for the Carolina Campus Community Garden (CCCG) Coordinator, Claire Lorch. The Garden was ably represented on that committee by the Provost's Office. The CCCG, in its short existence, has received the enthusiastic support of many individuals and groups, including UNC’s Chancellor, the Employee Forum, and student leaders. More than 100 staff, student, and community volunteers have gotten involved with the campus garden, which supports student learning in the areas of food access and sustainable gardening.

We are very pleased to have this funding, and our collective hats are off to the founder of the CCCG, Claire Lorch, for her vision, dedication, and tireless work.

Earth Partnership for Schools Returns to Garden

In July, the Garden partnered with the City of Durham Stormwater Services to again offer the Earth Partnership for Schools (EPS) teacher institute. Thirteen educators from six different schools participated in the week-long program, during which they learned how to create native plant gardens on school grounds and had the opportunity to visit some of our natural areas, such as Mason Farm Biological Reserve and Penny’s Bend. EPS has been a great success since it was first offered here in 2009: a total of 67 educators from 25 schools and environmental education centers have been trained.

The 2013 Earth Partnership for Schools teacher institute will be offered July 15–19. Applications for the 2013 workshop will be available February 1 on the Garden’s website: http://ncbg.unc.edu/education-for-schools-and-teachers/ For more information, please contact Grant Parkins, Natural Science Educator: parkins@unc.edu, 919-962-2887.

November 9: Annual Meeting of Botanical Garden Foundation

All Garden members are invited to attend the Botanical Garden Foundation Annual Meeting, which takes place in the Reeves Auditorium of the Education Center on Friday, November 9, 2012, 1:30 pm. The agenda includes election of Board members and reports on Garden programs and projects.

Our biggest enrollment ever for Nature Explorers Summer Camp happened this summer! Read more on p. 5 …
The Unseen Garden

One of the challenges of keeping everyone informed about our Garden is that we are so much more than what the public sees on a first visit. With our expansion into the Education Center and new display gardens, we are also expanding quickly in reach and breadth.

When I was a postdoc at the Missouri Botanical Garden, we created a poster titled “the Unseen Garden” to capture that larger scope and impact. A similar poster for the North Carolina Botanical Garden would tell a very big story. Below is an impressive, though partial, list of projects “at” the Garden—all made possible by grants and contracts that supplement our budget and which extend our impact and involvement beyond our physical borders:

• Durham Storm Water Management: Nursery and Greenhouse Manager Matt Gocke propagates plants for rain gardens being developed as part of Durham’s storm water management strategy.
• Healing and Hope Through Science: Program Coordinator Katie Stoudemire brings environmental education to children in long-term hospital care at UNC and Duke Hospitals (see p. 3 in this Newsletter).
• Ecological Restoration at Fort Bragg: Conservation Ecologist Michael Kunz’s works in partnership with U.S. Department of Defense and Army Corps researchers on the conservation of some unique Sandhills plant species (see p. 4 in this Newsletter).
• Earth Partnership for Schools: Since 2009, Natural Sciences Educator Grant Parkins has trained 67 teachers from 25 different schools to create native plant gardens on their school grounds.
• Seeds of Success: Director for Conservation Johnny Randall and his staff are involved with the Seeds of Success Program, to which the Garden contributes seed used in native plant development, restoration, scientific study and for long-term storage. Johnny helped plan and host the national Seeds of Success partners meeting this year on October 30-November 1, which brought participants from across the country to the Garden.
• The Outer Coastal Plain: Conservation Botanist Andy Walker is working with the U.S. Forest Service and The Nature Conservancy on longleaf pine savanna restoration projects in the outer Coastal Plain, including reestablishing native grasses and wildflowers at sites where these plants have disappeared due to prolonged fire suppression or ground disturbance.
• North Carolina Wildflower of the Year: Chris Liloia reports that at thirty years and running, our popular program continues to promote native plants by distributing seeds to gardeners throughout the southeast.
• Community Garden in Chatham County: Horticultural Therapist Sally Haskett is collaborating on a garden on the grounds of XDS Inc, a service provider for people with mental illness. She also works with the UNC Center for Excellence in Community Mental Health, the UNC Department of Psychology, UNC Rehabilitation and Counseling, grad students, and others.
• Climate Change Research Garden: Johnny Randall, Michael Kunz, and Grant Parkins collaborate on this research project that involves citizen scientists. We are one in a network of botanical gardens that have duplicate Climate Change Research Gardens in Chicago, Massachusetts, Seattle, and Washington, DC.
• Taxonomic Research: Herbarium Curator Alan Weakley is lead author on The Flora of Virginia, a major reference work to be published in December, the first compendium of Virginia plant identification and distribution information since the 1700s. This project is part of his larger scheme to publish a treatise on the southeastern flora and to revise The Flora of the Carolinas. Assistant Curator Carol Ann McCormick continues to build data records in the Herbarium’s web-searchable database on plant identification and distribution (over 120,000 records at last count).
• National Conservation and Research Communities: Director Peter White (that’s me!) serves on the national boards of the Center for Plant Conservation and NatureServe, advises the All Taxa Biodiversity Inventory in Great Smoky Mountains National Park, mentors students at the American Museum of Natural History, and collaborates with German researchers on ecology and biodiversity. His students at the UNC inventory invasive species, plant distribution, and urban forests across the state.

From my office in the Education Center, as I look out over the gardens that Amanda Mixon, Chris Liloia, and other staff members have labored to create, I think also of Coker Arboretum and all of our display gardens and natural areas. Nearby are the majestic trees of the Nature Trails, curated by Stephen Keith, who also stewards Battle Park and Forest Theatre. The Garden truly is a thriving world of plants, animals, and people, with a mission right here in this place. That mission also takes us into the larger community—the world.
Hope on Butterfly Wings

By Katie Stoudemire, NCBG Healing and Hope Through Science Coordinator

As program coordinator for the Garden’s Healing and Hope Through Science program, I spend most of my days at the hospital, away from the Garden. This makes me aware of what I’m missing by being indoors; but hospitalized kids are profoundly isolated from the natural world, so I do my best to bring inspiring moments and interactions with nature to them.

Early one morning this past summer, on the way in to work, I encountered a black swallowtail butterfly, floating in my path. I was tired, I’d spilled my cereal milk on my shirt, and I was running late. That swallowtail derailed my grumbling trajectory. Earlier in the summer, hospital staff had asked me to find a way to brighten a particular child’s experience amidst multiple tests, procedures, discomforts, and a potentially long hospital stay. She was spending too much time in the hospital waiting for her physical health to transform into something better. Enter six black swallowtail caterpillars in various stages of development from the Garden’s own fennel plants (thank you Elisha, Sally, Wendy)!

The patient, a middle schooler, and I got special permission from her care team to bring the caterpillars into her hospital room. Before they arrived, she spent hours making a beautiful sign to welcome her new friends. When they arrived, she named them—Chubby, Speck, Milliepede, Prickles, Porky, Jumbolaya—and wrote down observations and questions. She formed her own hypothesis about which would turn into butterflies first and when they would make their chrysalids. Over the weeks that followed, she collected data, took photos, and drew detailed drawings of her new charges.

The aptly named Chubby was first to make a chrysalis. Even when our young patient had to go to the ICU, her mom and I took pictures of the caterpillars and Chubby’s chrysalis to keep her informed. She updated hospital staff, visitors, and patients about the caterpillars’ progress, and we posted updates on the Healing and Hope Through Science Facebook page.

If I told you that the best part of this story was that the patient was released from the hospital the day after Chubby the butterfly was released, that would be the truth. But an equally important part of the story is how engaged our young naturalist was in the caterpillars’ growth and care, and how that involvement and learning experience transformed her hospital stay.

For more information about Healing and Hope Through Science, please visit our website www.healingandhopethroughscience.org and our Facebook page.

Daily Plant Sale to Stay Open Into Winter

Winter is a perfect time to plant native woody plants, so we are keeping the Daily Plant Sale open into the winter. We will be showcasing some of our beautiful “woodies,” so please stop by and shop for a wonderful holiday present for a friend or relative—a new shrub or tree! Speaking of gifts, you will find some great ones in the Garden Shop, too: stationery, books, children’s games & books, wildflower tea-towels, table linens, and much more.

The North Carolina Botanical Garden publishes this newsletter four times a year.

Editor & Layout Laura Cotterman
Photography Laura Cotterman, Michael Kunz, Elisha Taylor, Mary Parker Sonis, Katie Stoudemire, Barbara Tyroler
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Printed on 100% post-consumer recycled paper. Please recycle.
Consider This

Partnership: Rare Plants and the Military

by Michael Kunz, NCBG Conservation Ecologist

If you were to embark on a quest to find rare plants and natural communities, military bases might not be at the top of your list. Obvious reasons include safety and access concerns. But it turns out that many Department of Defense (DOD) lands, in North Carolina and elsewhere, harbor excellent examples of natural communities and native flora. Ironic as it may seem, it is no accident. Military bases often occupy very large areas of land encompassing a diversity of natural habitats, are undeveloped because they are used for training exercises, and regularly burn from ordinance explosions, wildfires, and prescribed fires—all of which serve to benefit the plants and animals of fire-dependent ecosystems. Fort Bragg, a US Army base near Fayetteville, NC, is no exception. Located in the Sandhills region of the Coastal Plain physiographic province, Fort Bragg occupies over 250 square miles and includes an outstanding example of the globally significant longleaf-wiregrass ecosystem. It is also home to hundreds of rare plant and animal species, and some of the rare plants are in decline.

In 2011, researchers from the US Army Corps of Engineers Construction and Engineering Research Laboratory contacted the Garden to propose a restoration project partnership. We chose a suite of rare species found in several different communities: Sandhills Milkvetch (Astragalus michauxii) and Sandhills Pixie-moss (Pyxidanthera brevifolia) in Xeric Sandhill Scrub and Pine/Scrub Oak communities, Georgia Leadplant (Amorpha georgiana) in Little River Flatwoods community, Rough-leaf Loosestrife (Lysimachia asperulifolia) in Streamhead Pocosin and Sandhill Seep communities, and Sandhills Lily (Lilium pyrophilum) in Streamhead Pocosin Ecotone, Sandhill Seep, and Small Stream Swamp communities. Of these five species, one is federally endangered (Rough-leaf Loosestrife) and the other four are classified by the Army as critically imperiled “Species at Risk.”

Armed with data suggesting that populations of these species are in decline on Fort Bragg and throughout their ranges, and with a recent Center for Plant Conservation publication, Plant Reintroductions in a Changing Climate (Island Press), we wrote a successful proposal for funding from the Environmental Securities Technology Certification Program. Framed as a demonstration for reintroduction protocols (an innovative technology), the project will take place on Fort Bragg to determine if reintroduction is a cost-effective conservation tool for use by DOD land managers as well as the larger conservation community. Currently and over the next four years, the Garden will receive $271,000 (of an $825,000 total award) to propagate thousands of plants of our five project species and reintroduce them—that is, plant them—into sites on Fort Bragg where they historically occurred. Together with our partners, we will collect data on recruitment, mortality, growth, and fecundity (reproductive potential) to compare our experimental populations with naturally occurring populations and determine financial costs of species reintroductions.

While our goal always is viable populations, we do view reintroductions as experiments and will continue to inquire about how best to conserve these species. You never know what we might learn along the way.

Bobwhite Quail Returned to Mason Farm Biological Reserve

Bobwhite quail used to be common at the Mason Farm Biological Reserve, as well as in meadows across the Southeast, but have faced a steep decline over the last couple of decades as a result of habitat loss. We reintroduced bobwhites to Mason Farm this past June after raising over 100 birds on-site from day-old chicks. Look for a more complete newsletter article on this reintroduction project in the spring, after we can verify that they survived the winter. But for now all seems well, as several coveys have been spotted in all of the meadows. The above image was taken at Mason Farm by Mary Sonis, who happened upon a covey on September 27. So keep your eyes open and fingers crossed!

—Johnny Randall, Director of Conservation Programs

Illustration by Dot Wilbur-Brooks
My father's response upon hearing of my education internship at the Garden was, simply, “Hon, you realize you’ve got to be insane to work at a kids’ summer camp.”

Had I only known what an incredible adventure this summer would be . . .

Under the guidance of Elisha Taylor, Coordinator for Children’s & Family Education, and fellow camp counselor Colleen Muse—two master arts-and-craftspeople and environmental educators—I discovered that excellent teaching often means parting with social graces. Offering up our high school Counselors-in-Training as decorative interpretations of native trees? You bet! Discussing how to best voice a snail versus a butterfly puppet? Oh, yes! Embodying a “slithery snake” in search of camper-mice to munch on? Absolutely! Such is the language of children, after all; go hang out with a seven-year-old and you’ll understand my meaning. Kids live in a gleaming, wide-eyed universe of the best possible sort.

At twenty-one, my access to this uninhibited state is limited, but a summer working with such bright, imaginative kids gave me many more glimpses. One perfect example happened during a hike Colleen and I led along the Streamside Trail. We exited the deer fence enclosing the manicured Display Gardens; as our group crossed the dusty line of shade marking the forest edge, the little person clasping my hand suddenly slowed. He looked up and around at the towering oaks and ashes, then at me, all eyelashes, and said (in one of those whisper-yells children frequently employ), “Look! We’re in a forest!” A long pause, then: “It’s beautiful.”

This is big, folks. When I think about the goals of the Garden’s summer camp, I return to moments like these, proof that kids go home with some foundational degree of comfort and connection with their environment. After all, only after you fall in love with something are you moved to care for it.

I urge you, then, Friend of the Garden: take a walk in the woods (and then another) with a little one and let her help you abandon some of those boring adult tendencies. Look for bugs; get your clothes and hands dirty, and laugh about it. Pretend. Listen. Play. Sure, you run the risk of seeming a bit crazy. But you will discover, as I did, that taking a walk in the woods with a child is the best way to nurture that sense of wonder in all of us.

The Garden hosted 95 campers during this summer’s Nature Explorers Summer Camp—our biggest camp season yet! Elisha Taylor, counselors Colleen Muse and Lacy Schmidt, and a terrific group of seven high school aged Counselors-in-Training (CITs) taught seven fun-filled and educational camps for ages 4–10, exploring the Garden’s rich natural areas and learning about North Carolina ecology and natural history. We asked counselor Lacy Schmidt, now a UNC senior, to paint us a word-portrait of her Nature Explorers experience.
**Spring Semester Certificate Courses**

Find full descriptions of these Certificate Program Courses on our website: http://ncbg.unc.edu

😊 = No prerequisites—open to everyone!

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### Native Plant Studies

**Native Plant Studies Networking Session**
Saturday, Jan 19 (incl. weather: Jan 26); 10:00 am – 12:00 pm  
Fee: None.

**Winter Flora**
Ken Moore, NCBG Assistant Dir. Emeritus  
Sundays, Jan 20, 27, Feb 3, 10 (incl. weather: Feb 17); 1:30 – 4:30 pm  
Fee: $125 ($115 members)

**Independent Study Design (Short Course)**
Steph Jeffries, Forest Ecologist  
Saturday, Jan 19, Tuesdays, Feb 5, Mar 12; 10:00 am – 12:00 pm  
Fee: $65 ($55 members)

**Plant Ecology**
Steph Jeffries, Forest Ecologist  
Tuesdays, Feb 12, 19, 26, Mar 5 (field trip); 9:30 am – 12:30 pm  
Fee: $125 ($115 NCBG members)

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### Book Review: On the Origin of Species by Charles Darwin (Short Course)
Peter White, NCBG Director  
Thursday, Feb 21 (incl. weather: Feb 28); 7:00 – 9:00 pm  
Fee: $140 ($125 NCBG members)

### Botany
Olivia Lenahan, Horticultural Scientist  
Saturday, Mar 2, 9, 16, 23; 9:15 am – 1:15 pm  
Fee: $125 ($115 NCBG members)

### Spring Flora
Milo Pyne, Plant Ecologist  
Saturdays, Mar 9, 16, Apr 13, 20; 1:30 – 4:30 pm  
Fee: $125 ($115 NCBG members)

### Plant Communities of North Carolina
Alan Weakley, Director, UNC Herbarium  
Tuesdays, Apr 2, 9, 16, 23; 9:00 am – 12:00 pm  
Fee: $125 ($115 NCBG members)

### Piedmont Savanna Ecology
Nicki Cagle, Savanna Ecologist  
Saturdays, Apr 6, 13, 20, 27; 9:15 am – 12:15 pm  
Fee: $125 ($115 NCBG members)

### Controlling Invasive Plants (Short Course)
Jeff Stewart, Ecologist  
Saturday, Apr 6; 1:30 – 4:30 pm  
Fee: $40 ($35 NCBG members)

### Principals of Conservation Biology
Peter White, NCBG Director  
Mondays, Apr 8, 15, 22, 29, May 6, 13, 20, June 3; 12:00 – 1:00 pm  
Fee: $125 ($115 NCBG members)

### Local Trees (Short Course)
Steph Jeffries, Forest Ecologist  
Thursdays, May 2, 9; 9:30 am – 12:30 pm  
Fee: $65 ($55 NCBG members)

### Plant Taxonomy
Milo Pyne, Plant Ecologist  
Fridays, May 3, 10, 17, 24; 1:00 – 4:00 pm  
Fee: $125 ($115 NCBG members)

### Flowering Plant Families
Olivia Lenahan, Horticultural Scientist  
Saturdays, May 4, 11, 18, June 1; 1:00 – 4:00 pm  
Fee: $125 ($115 NCBG members)

### Native Southeastern Medicinal Plants
Ricky Bratz, Herbalist (Short Course)  
Saturday, May 18; 1:30 – 4:30 pm  
Fee: $40 ($35 NCBG members)

### Plant Propagation (Short Course)
Matt Gocke, NCBG Nursery/Greenhouse Mgr.  
Saturday, June 8; 9:30 am – 12:30 pm  
Fee: $40 ($35 NCBG members)

### Summer Flora
Milo Pyne, Plant Ecologist  
Saturdays, June 15, 22, July 13, 20; 9:30 am – 12:30 pm  
Fee: $125 ($115 NCBG members)

### Botanical Art & Illustration

**Depth and Perspective**
Patricia Savage, Professional Artist  
Saturdays, June 15, 22, July 13, 20; 9:15 am – 12:45 pm  
Fee: $125 ($115 NCBG members)

**Introduction to Botanical Illustration (Short Course)**
Linda Koffenberger, Professional Artist  
Saturday, Jan 19 (incl. weather: Jan 26); 1:00 – 4:30 pm  
Fee: $40 ($35 NCBG members)

**Beginning Drawing**
Patricia Savage, Professional Artist  
Sundays, Jan 20, 27, Feb 3, 10; 1:15 – 4:45 pm  
Fee: $125 ($115 NCBG members)

**Beginning Watercolor**
Maryann Roper, Professional Artist  
Tuesdays, Jan 22, 29, Feb 5, 12 (incl. weather: Feb 19); 10:00 – 4:30 pm  
Fee: $125 ($115 NCBG members)

**Portfolio/Graduation Preparation: What You Need to Know (Short Course)**
Emma Skurnick, Professional Artist  
Tuesdays, Feb 19, 26 (incl. weather: Monday, Apr 1); 9:30 am – 12:30 pm  
Fee: $65 ($55 NCBG members)

**Nature Journaling (Short Course)**
Jeannine Reese, Artist  
Saturday, Feb 23, 1:00 – 4:30 pm  
Fee: $40 ($35 NCBG members)

**Portfolio/Graduation Preparation: Business Practices for Illustrators (Short Course)**
Emma Skurnick, Professional Artist  
Tuesdays, Mar 5, 12, 9:30 am – 12:30 pm  
Fee: $65 ($55 NCBG members)

**Intermediate Watercolor for Illustrators**
Maryann Roper, Professional Artist  
Tuesdays, Mar 5, 12, 19, 26; 1:00 – 4:30 pm  
Fee: $125 ($115 NCBG members)

**Intermediate Drawing**
Emma Skurnick, Professional Artist  
Wednesdays, Mar 6, 13, 20, 27 (incl. weather: Monday, Apr 1); 10:00 am – 1:30 pm  
Fee: $125 ($115 NCBG members)

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### New Registration Procedure!

1. Go to ncbg.unc.edu and navigate to “Calendar of Programs & Events” under the Education & Events tab.
2. Click on Register Now.
3. You will be taken to a secure registration management site in a new browser window. Select your program from the calendar.
4. Create a login & password.
5. Check availability, register, and pay!

Note: Pre-registration is required for all programs unless otherwise indicated. If a program is full, you can choose to be added to the wait list. If a program does not reach minimum registration level, it may be cancelled. In this case, you will receive phone/e-mail notification and registration fees will be refunded in full.

If you must cancel your registration, you can do so online, or call 919-962-0522; you will receive an 80% refund (20% withheld for administrative processing). No refunds are given for cancellations made less than 5 working days from first day of class.

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Continued . . . >>
Certificate Classes cont’d.

**Copperplate Calligraphy—Basic**
**Letter Forms (Short Course) 😊**
Maryann Roper, Professional Artist
Thursday, Mar 14, 1:00 – 4:30 pm
Fee: $40 ($35 NCBG members)

**Ephemerals (Short Course) 😊**
Linda Koffenberger, Professional Artist
Saturday, Mar 16, 1:00 – 4:30 pm
Fee: $40 ($35 NCBG members)

**Advanced Watercolor Techniques**
Emma Skurnick, Professional Artist
Wednesdays, Apr 3, 10, 17, 24; 10:00 am–1:30 pm
Fee: $125 ($115 NC BG members)

**Acrylic and Gouache**
Kate Legaly, Professional Artist
Sundays, Apr 7, 21, 28, May 5; 1:15 – 4:45 pm
Fee: $125 ($115 NC BG members)

**Mixed Media**
Linda Koffenberger, Professional Artist
Wednesdays, May 1, 8, 15, 22; 1:00 – 4:30 pm
Fee: $40 ($35 NC BG members)

**Light on Form (Short Course) 😊**
Patricia Savage, Professional Artist
Saturday, May 4, 1:15 – 4:45 pm
Fee: $40 ($35 NC BG members)

**Pen and Ink: Media Exploration**
Kathy Schermer-Gramm, Professional Artist
Thursdays, May 9, 16, 23, 30; 1:00 – 4:30 pm
Fee: $125 ($115 NC BG members)

**How to Paint a Cast Shadow (Short Course) 😊**
Patricia Savage, Professional Artist
Saturday, May 11, 1:15 – 4:45 pm
Fee: $40 ($35 NC BG members)

**Integrating Color Theory & Composition**
Patricia Savage, Professional Artist
Sundays, May 19, Jun 2, 16, 23; 1:15 – 4:45 pm
Fee: $125 ($115 NC BG members)

**Butterflies in Colored Pencil (Short Course) 😊**
Linda Koffenberger, Professional Artist
Saturday, Jun 15; 1:00 – 4:30 pm
Fee: $40 ($35 NC BG members)

Workshops

**Holiday Origami Workshop**
Alice Zhao and Wesley Guo
Monday, Nov 12, 1:00 – 3:00 pm
Origami, the art of folding paper, is believed to have originated in ancient Japan or China. Millions of people around the world enjoy the popular activity, creating models of animals and flowers from geometric shapes. The workshop will show you how to make beautiful origami, and one of your final products will be displayed on the Holiday Tree at the Garden this December. Students will also get to take their favorite piece home. Materials provided.
Fee: $10 ($5 NC BG members).

**Chinese Brush Painting: Ducks**
Alice Zhao, Artist
Thursday, Nov 15, 1:00 – 4:00 pm
Ducks are the Chinese symbol of romance. Students will paint ducks and black swans in their natural habitats. Intended for any experienced artist. A supply list will be sent prior to class.
Fee: $35 ($30 NC BG members).

Walks, Hikes, Tours

**Early Winter Owl Prowls**
Gail Abrams, Ex. Dir., Piedmont Wildlife Center (PWC)
Friday, Nov 30 & Dec 7; 7:00 – 9:00 pm
In early winter, local owls are coming back to their nesting sites to find their mate and get ready for their new family. Owls become more vocal as they claim their territory and call to let their mate know they have returned for another mating season. Join Gail Abrams on a trip to the Mason Farm Biological Reserve to listen and look for signs of screech, barred, and great horned owls. You will have the chance to see live owls up close! Learn why owls are so important to the environment and what you can do to help protect them. Register at Piedmont Wildlife Center: [http://www.piedmontwildlifecenter.org/classes/](http://www.piedmontwildlifecenter.org/classes/). Fee per Prowl: $15 ($10 NC BG, PWC members)

**A Winter Walk Through the Garden**
Saturday, Feb 2; 10:00 am, Rain or Shine
The Garden is beautiful in the winter, but too often people begin looking for indoor activities during the months of November through February. Join us for this guided walk through the Garden, where you will get to experience the beauty of native plants in winter and pick up a few tips to add interest to your home landscape during this time of year.

FREE, but advance registration is required.

Lectures & children’s programs on next page . . . >>
**Registration Procedure**
Advance registration is required for all programs unless otherwise indicated! See page 6.

**Lectures & Book Signings**

**The Broken Flower**  
a poetry reading by Jeffery Beam  
Thursday, November 8, 7:00–8:30 pm

Jeffery Beam will read from his new major work of poetry, *The Broken Flower*—a companion volume to an early work titled *The Fountain*. Here, Jeffery journeys beyond merely human stories into the radiant *IS*—the *I AM* hidden in earthly shadows and gleaming foliage and skies. Beam finds human feeling in Nature’s broad manifest, a world ripe with anniversaries—of the bobwhite, the copperhead, owls, tree frogs, deer, apples and persimmons, mountain fogs and river rhythms, Monet, Cathar spirits, Paracelsus, Lazarus, and falling stones—affirming that “there is a reason for being here/…however/it insinuates itself into you.”

These poems fulfill William Carlos Williams’ maxim of writing for “the pursuit of beauty, and the husk that remains.” *The Broken Flower* is a beautiful work, in which the awkward, the broken, and the common welcome the reader with verity, wholeness, and grace. **Free, but please register online.**

**Lunch and Learn at the Garden . . .**
*Bring your lunch and join us for a lecture & book signing . . .*

**Longleaf, Far as the Eye Can See:**  
*A New Vision of North America’s Richest Forest*  
November 13, 12 noon – 1:30 pm

Longleaf forests once covered 92 million acres from Texas to Maryland to Florida. These grand old-growth pines were the “alpha tree” of the largest forest ecosystem in North America and have come to define the southern forest. But a complex web of factors reduced those forests to only 3 million acres. Fortunately, longleaf forests are once again spreading across the South. Blending a compelling narrative by writers Bill Finch, Rhett Johnson, and John C. Hall with Beth Maynor Young’s breathtaking photography, *Longleaf, Far as the Eye Can See* invites readers to experience the astounding beauty and significance of the majestic longleaf ecosystem. **Rhett Johnson** is cofounder and president of the Longleaf Alliance, Inc. **Free, but please register online.**

**A Darwin Day Presentation . . .**

**What Bird Songs & Bird Beaks Can Tell Us About Evolution**  
Tuesday, February 12, 7:30 pm

**Steve Nowicki**, Bass Fellow and Dean and Vice Provost for Undergraduate Education at Duke University, studies the evolution of animal communication, primarily in birds. He will present his studies on behavioral ecology and neuroethology, especially questions about the function, structure, and evolution of bird signaling systems. Steve is also a professor in the departments of biology, psychology and neuroscience in Trinity College and in the neurobiology department in the School of Medicine. **Free, but please register online.**
**Children’s/Family Programs**

**Nature Journaling for Kids** (2-session course, ages 8–12)
Saturdays, Nov 3 & 10, 10:30 am – 12 pm
Annie Nashold, Artist + Environmental Educator

Children observe the natural world and record through drawing, painting, and writing what inspires them. Simple sketching techniques with color washes are used, and the page is designed to reflect place, weather, sights, sounds, and feelings. A wonderful method for the young naturalist and a practice that can last a lifetime.

All materials, including journal and art supplies, included! Fee, per child: $30 ($25 NCBG members)

**Sweeet Peas** (ages 2 ½ – 4 w/ parent)
Tuesdays, 10–11 am (see dates & themes below)
Sue Monahan, Environmental Educator

An exciting opportunity for the young child and parent to learn about nature together! Little ones will use sight, smell, hearing, and touch to explore the garden and trails, enjoy stories, and make simple crafts. Each class will focus on a different nature theme. No strollers or non-registered siblings, please. Fee: $10 ($8 NCBG members) per child + adult pair per session.

Jan 15 – When It Gets C-c-c-cold
Jan 29 – Winter Backyard Birds
Feb 12 – Lovey Dovey Deer
Feb 26 – Salamander Wake Up!

**Bluets: Preschoolers Exploring Nature!**
(4-session course, ages 4–5)
Wednesdays, Jan 23, 30, Feb 6, 13; 1:30 – 3:30 pm
Elisha Taylor, Coordinator for Children’s & Family Education

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 winter, preschoolers will learn about owls, winter weather, and how animals and plants survive the cold through hands-on activities, nature walks, stories, crafts, puppet shows, and group play. Snack provided. Fee: $70 ($60 NCBG members)

**Natural Ornaments Family Workshop** (ages 4+ w/parent)
Sunday, Dec 16, 3:00 – 4:00 pm
Elisha Taylor, NCBG Coordinator for Children's & Family Education

Decorate for the holidays naturally with acorns, pinecones, milkweed pods, and more! Use your imagination to craft your own unique ornament with materials that nature supplies. Enjoy a mug of hot chocolate to celebrate your creative work. All materials included.

Fee, per child: $8 ($6 NCBG members)

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**Dear Garden Member**—

The Botanical Garden Foundation & Garden staff invite you to our Annual Holiday Celebration on Sunday, December 16, 3–5 pm in the Eleanor Smith Pegg Exhibit Hall (Education Ctr).

Please join us for a festive winter holiday celebration. Our holiday tree will be decorated with origami ornaments . . .

**HAPPY HOLIDAYS**
from the staff of the
North Carolina Botanical Garden

Holiday Celebration
Sunday, December 16, 3–5 pm

. Bring a plate of your favorite seasonal treats to share. We will provide mulled cider and punch as well as music.

We would be grateful if you would also bring a nonperishable food item to contribute to a collection for a local food pantry.

The Garden Shop will be open for holiday purchases.

Wreath of native cranberry, *Vaccinium macrocarpon*
Illustration by Dot Wilbur-Brooks
The Farm at Penny Lane Comes to Fruition
by Sally Haskett, Horticultural Therapist

This fall the Garden's Horticultural Therapy Program partnered with the UNC Center for Excellence in Community Mental Health to create a unique community garden. The Farm at Penny Lane is on land in Chatham County owned by XDS Inc., a service provider for people with mental illness.

The Farm creates a supportive environment for clients and other volunteers to learn about gardening and nutrition, get outdoor exercise, socialize, and become an integral part of a community enterprise. “The Farm offers a new opportunity for our area by combining community gardening and horticultural therapy on a larger scale, promoting healthy lifestyles for all involved,” said Sally Haskett, NCBG Horticultural Therapist. “We are excited to be part of this dynamic project.”

Thava Mahadevan, Director of Operations for the UNC Center provides leadership and inspiration for the Penny Lane project. He and Piper Meyer, Research Assistant Professor in UNC’s Department of Psychology, organized volunteers for the first workday on October 5. NCBG brought expertise in garden design and construction. More than 40 people came together to create 14 garden beds from the ground up, using both traditional methods and the “lasagna-style” method of sheet mulching.

Other contributors of time and materials include UNC Rehabilitation Counseling, psychology students, Chapel in the Pines, Brooks Contracting, Ludy Tree Care, and Chatham County Center of NC Cooperative Extension. Future plans are to bring horticultural therapy services to clients at the Farm at Penny Lane on a weekly basis.

If you would like to contribute to this exciting project, please contact Sally Haskett here at the Garden: haskett@email.unc.edu

Greta Lee (standing to left, orange shirt) instructs volunteers on “lasagna-style” gardening, using waste produce from Whole Foods’ juice bar, at the Farm’s first workday. Greta is a Master Gardener and NCBG volunteer. Thava Mahadevan is in center of photo wearing white hat.

VOLUNTEERS: PLEASE JOIN US!
Thursday, November 15, 4:30–6:30pm

Let’s celebrate the season together. In the spirit of Thanksgiving, join us as we give thanks to the Garden’s fantastic volunteers. Mix with fellow volunteers and staff for refreshments and a presentation by Director of Conservation Johnny Randall: “Natural Area Conservation, Design, and Management.” And please bring a guest who may be interested in joining the NCBG Volunteer Program.

RSVP by Nov 7: 919-962-0522 or laurende@unc.edu
A gift from Syngenta to the Garden’s conservation program started the fiscal year with support that will help pay for staff, land stewardship, and the conservation programs the Garden leads throughout North Carolina and the region. We were also pleased to learn that Chicita Culberson has provided funds to care for Villa Pinea, the residence accompanying the natural area she gave to the Garden to help protect the New Hope Creek watershed.

Recent support for Healing and Hope Through Science includes a gift from The Monday Life and a grant from the Institute for Museum and Library Services. This welcome support will allow Katie Stoudemire to continue her work introducing science and nature to children who are hospitalized (see article on p. 3).

Dues and undesignated contributions and bequests to the Garden made a tremendous difference in the last fiscal year, and gifts where the need is greatest will go a long way to help retain staff and pay bills this year as well. Sherry Morgan made a generous gift in honor of Jim Massey, her graduate mentor and former curator of the UNC Herbarium. Another botanist, Julie English Irwin, also made an unrestricted gift, and we recently learned that her mother Julia Irwin included the Garden in her estate plans. We are very grateful for such foresight. C.L. and Nell Morton, Claire and Hudnall Christopher, Ed and Iola Peed-Neal, Dot Wilbur-Brooks, Harriett Brewer, William L. Scarborough Jr., Sally Couch Vilas and Harry Gooder, Ellen M. Johnson, Chicita Culberson, and John William Robinson III all made generous unrestricted gifts since the last Newsletter.

Horticulture volunteer Jim Schmidt has again arranged to have his time and his gift matched by his former employer, Sherwin-Williams Company, while volunteer Cindy Cook’s contributions were matched by GlaxoSmithKline. Among the many gifts recently received that will help with general support were those from Karla Reed, Hendrik Jan Vreman, Mary Elizabeth Schon Huey, Carole Southerland Tarry, Thomas F. Braaten Jr., Elizabeth L. Fenwick, Richard Kenneth Johnson, Mary Coker Joslin, Judy and George Lockhart, Carol S. Rosenberg, Edward Hendrik Rotherberger, David Raymond Brooks, Jean D. Buckwalter, Cat Cambareri, Bessie M. Carrington, Laura Hynes Durden, Martha Girolami, Jayne Lane Gregory, Leslie Guier, Lorette O. Hollinshead, and Nell Joslin.

Many thanks to everyone who has paid their dues or made a contribution to help “where the need is greatest.” A long-term goal is to build the Garden’s General Endowment to a level that will provided needed income. We appreciate members like James England and Mary Whitton who made contributions to the General Operating Fund Endowment, and we hope others will consider endowing their annual gifts to make sure the Garden always has the resources it needs.

Garden members continue to build permanent endowments for programs and areas in which they are especially interested. Special thanks to Karla Reed, Karen McDougal, Thomas F. Braaten Jr., and others who made recent gifts to build the Coker Arboretum Endowment. Donna Ann Reece and Ryan Elting were among the donors who designated their gifts to build the endowment that generates funds for Mason Farm Biological Reserve. We were also pleased to receive many gifts for the Battle Park Endowment Fund, including generous contributions from Alpha Phi Omega service fraternity, Diana Steele, Julianne Hale Cross, Andrew Gibson, and Hannah Gavin.

The Garden Club of North Carolina made an additional gift this year, designated for the Garden’s Wildflower of the Year Program. We are especially appreciative of Linda Curcio, who represents the GCNC on the Botanical Garden Foundation Board. Linda makes sure the statewide organization, the affiliated garden clubs and their members know about the many activities of the North Carolina Botanical Garden in protecting native wildflowers and promoting their use in the landscape.

As you will read elsewhere in this Newsletter, the Carolina Campus Community Garden now has a funded position, thanks to Chancellor Thorp and the University. The campus program continues to teach skills to students and supply fresh produce to UNC’s lowest-paid staff members. The CCG recently attracted contributions from Marathon Petroleum and other corporations and individuals who want to make sure the campus garden continues to thrive. Fitch Lumber has generously donated a large picnic table, and Factory Direct Hose has furnished top-of-the-line garden hose to water the vegetables.

We know that Garden members have favorite programs, so gifts in addition to basic dues are welcome. For example, Claire Morris McCall and Harriett Lipscomb Whipple designated their gifts to help the UNC Herbarium right away. Paperhand Puppet Intervention concluded another successful season of performances in the Forest Theatre, and the group made a generous donation toward the care and eventual renovation of UNC’s beautiful stone amphitheatre.
Friday night at the Fall Plant Sale—a special event at which Garden members get first pick of the plants—launched another successful annual sale. The event raised money for the Garden and distributed beautiful propagated native plants to area gardens. Gifts from Harriet Martin, Linda Curcio, and Mary and Nell Joslin helped with costs of refreshments and made sure staff and volunteers were provided for both days. Thanks also to Bagels on the Hill for furnishing fresh bagels and cream cheese.

Two weeks later, the Sculpture in the Garden Preview Party inaugurated this year’s fall sculpture show. Sponsors of the festive event included Ann and Lex Alexander, Jane and Judi Brown, Munroe and Becky Cobey, Archie Purcell and Dorrie Casey. Board members Harriet Martin and her husband D.G., and Sandra Brooks-Mathers and her husband Mike Mathers gave special gifts to make sure staff could participate in this elegant occasion. The 2012 Sculpture in the Garden exhibition continues until December 16, and with the changing colors and leaves as a backdrop, you will want to visit more than once!

In addition to hosting the Sculpture Show preview party, Becky and Munroe Cobey directed a gift to add to initial contributions by Marcella and Paul Grendler for construction of a shade structure for Horticultural Therapy. Family and friends of Margaret and Tom Scott continue to send in donations designated for the pavilion for our native plant sales. Contributions from William and Jane Jacobs and additional gifts from Rachel Ray Wright and Cynthia Keck Scott will help complete the funding for this important structure.

The Education Center continues to inspire gifts to complete the funding for this building. Loyal members will remember that the recession had a deep effect on gifts and pledges for our new building. There are still opportunities to name some beautiful rooms and facilities. Many thanks to everyone who made recent gifts, and to everyone who provided funding for this innovative building in earlier years.

Watch for your colorful Fall Appeal in your mailbox! With best wishes for the season to come, and thanks for all you do to make the Garden thrive,

Charlotte Jones-Roe
Associate Director—Development
919-962-9458 jonesroc@unc.edu

Thank you to all who support the Garden, especially to the many whose membership dues and gifts were received in the period July 1—September 30, 2012.

GENERAL SUPPORT
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Flora Mulkey
Robert & Beverly Murdock
Debra Lynne Murray
Rita Musante
Edward Max Neal
Leann Nelson
Zak Nelson
Dorothy & John Neter
Barbara & Paul Nettesheim

Gifts

Charlotte Jones-Roe
Associate Director–Development
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IN MEMORY OF
Charlotte Abbate
Angelo Abbate
Kay Bream
Charlotte Jones-Roe, for the Herb Garden
NCBG Staff, for the Education Center
Marilyn Curtis
Lisa Clements
Arthur J. Prange, Jr.
Jean McKinney
Joseph S. “Buddy” Horton
Gay Rakes Garden Club, for a Library book
Linda Frank
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Amy Gitelman
Kristine Anne Yohe
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Mary Coker Joslin
Nell Joslin
Gladys Slater
Lawrence & Adrienne Braverman
Caryn F. Hosler
Don Evans & Nancy Oates
Emérico L. Martinez
Robert Whitton
Mary C. Whitton & Nick England

You will be receiving our Fall Annual Appeal soon — but remember that you can always renew your dues or making an extra gift using the enclosed envelope by OR going to our website and clicking $ Make a Donation

www.ncbg.unc.edu

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.
Ponder the Post Oak

by Alan Weakley, Director, UNC Herbarium

It is hard for us not to see time through the lens of our species—humans have lifespans measured in decades, at most about a century. Most other organisms with which we form close relationships have lifespans shorter than we do. We have pets which live a decade or two. We plant a vegetable garden, which dies in the fall and is replanted in the spring. Perhaps we have a psychological vanity that we are nearly immortal, presiding godlike over our dependent animals and plants, watching their beginnings and ends.

But we live our lives around organisms that live much longer than we do, that may be almost unchanged from the time of our birth to the time of our death, that stolidly oversaw events that we might consider impossibly long ago (a band of Native Americans moving along a trading path, the American Revolution, the founding of the University of North Carolina, the marriage of our great-great-great grandparents, the Civil War) and may see the 24th Century. Most trees have life spans of centuries, often many centuries, and while in the eastern Piedmont we lack the “Methusaleh trees” of other areas (bald-cypresses, redwoods, sequoias, bristlecone pines, with lifespans of millenia), we still live among trees that far outlast us.

Undoubtedly the most famous of old trees in Carrboro/Chapel Hill is the Davie Poplar, already a notable individual in 1792 and considered to be at least 300 years old. Carolina grad though I am (’78), I can’t say that the Davie is one of my favorite old trees around town, nor is it likely the oldest. Size is a misleading indicator of age, and Tulip Trees (*Liriodendron tulipifera*) like the Davie are fast-growing, light- and soft-wooded trees—they bulk up fast, especially if pampered by ground crews and fed a rich diet of nutrients and groundwater!

Instead, consider our Post Oaks (*Quercus stellata*), common trees of the high, dry, granite monadnock of Chapel Hill. Sometimes called “iron oak”, this species is a survivor, tolerant of drought and fire and nutrient starvation. It grows slowly, often adding less than 1/16 of an inch of diameter in a year, especially when growing on a dry granite hilltop in acidic soils. Growing as little as half an inch a decade, six inches a century, post oak develops wood that is hard, tough, and the heaviest wood in North America.

Here in Chapel Hill and Carrboro, we have many old, open-grown Post Oaks scattered around town, as do many other parts of the Piedmont and Coastal Plain of North Carolina and adjacent states. Look around and find an old Post Oak, and ponder its age and characterful individuality, with medium gray bark, characteristic cross-shaped leaves, and gnarled spreading limbs. They have withstood drought, lightning strikes, and the ground fires set by lightning and native Americans. Some of them approach three feet in diameter, and are as old as or older than the Davie Poplar—mature trees before European settlers came to our area. Ponder all that has taken place beneath their spreading branches!
Thank You, Frances!

Frances Allen, the Garden’s long-serving Business Manager, retired at the end of July. Frances kept us running in so many ways that it is hard to know where to start in thanking her, celebrating her, and wishing her well in retirement. Frances mastered a bewildering set of university rules and procedures, somehow adjusted to an increasing workload as the Central University Administration delegated more and more to the units, steered us through the years of construction (with lots of big bills to pay), coordinated the move from the Tot-ten Center, helped us survive very significant budget downturns, and set up systems for the expanded activities and programs after the Education Center opened. With the Botanical Garden Foundation treasurer, she attended the investment meetings that oversaw the Garden’s growing endowments. She guided our expenditures, always being sure to spend funds in priority order so as to protect our long-term assets. Like all Garden employees, she pitched in for weekend duty rotation and special events. Frances cared deeply about the Garden’s people—her first priority was to consider how the staff was doing in the midst of a Garden undergoing great changes. We wish Frances happiness on her farm in Granville County and thank her for her years of service to the Garden and support for the Garden staff.

The Garden co-hosted the NC Prescribed Fire Council annual meeting at the Garden August 21–22. Director Peter White spoke on “Why We Burn,” and Director of Conservation Programs Johnny Randall presented on the Garden’s prescribed fire program, leading a field trip to the Mason Farm Biological Reserve to show the effectiveness of prescribed fires in ecosystem rehabilitation and hazard reduction.

Peter White presented “An Introduction to the North Carolina Botanical Garden” at the Chapel Hill Newcomers Club dinner, held at the Garden on September 11. On September 12 he presented “Climate Change in North Carolina” for the Oaks Garden Club at the Chapel Hill Country Club. He spoke on “Bartram’s and Lawson’s Carolina Journeys” at the Durham Public Library on September 15 and led a discussion for a visiting class of NC State graduate students on “public garden administration” on September 22. Peter attended and hosted the meeting of the National Advisory Board of NatureServe at the Garden on September 27 and then attended the meeting of the Board of the Center for Plant Conservation in St. Louis, September 28. He attended the meeting of the Board of Visitors of the UNC Institute of the Environment, October 4 and 5 at the Garden. On October 11 he was an invited mentor and student paper judge at the Student Conference on Conservation Science at the American Museum of Natural History in New York. Finally, Peter gave his talk, “Turn the Poet Out of Doors: a Natural History of Robert Frost,” at the home of Mary Coker Joslin in Raleigh on October 24.

Herbarium Assistant Curator Carol Ann McCormick recently traveled to New York Botanical Garden as part of the UNC Herbarium’s participation in a multi-year, multi-institutional NSF-funded project to organize and make available on the internet information on macrofungi. The project, The Macrofungi Collection Consortium, involves more than 30 different institutions.

In mid-August, after an extensive search, we were pleased to welcome Kimberly Marousky to the Garden as our new Business Manager. The interview committee was extremely impressed with Kimberly’s systems thinking, her analysis of team work in organizations, and her problem solving experience and abilities. “My parents were in the Air Force so we lived in the Midwest, England, and Mississippi,” says Kimberly. “I went to high school in Mississippi, but learned gardening in England. I remain good at weeding, but bad at watering! I most enjoy reading and learning new things, though I have been known to rollerblade and try my hand at cooking.” Regarding work at the Garden: “I am excited by the passion and commitment of everyone here and look forward to trying to fill Frances’s very big shoes!” Welcome Kimberly!
How to tell if your Dues are Due . . .

Please check your membership renewal date, posted above your name & address. Use the enclosed envelope to renew! It costs $ + time for us to send reminder postcards. THANKS!

Garden Hours

Weekdays Year-round: 8 am – 5 pm
Weekends through May 2013: 9 am – 5 pm
Weekends June–August 2013: 9 am – 6 pm
Saturdays: 1 pm – 5 pm
Sundays: 1 pm – 6 pm

Consult our website for holiday closings

There’s still time to see the 24th Annual Sculpture in The Garden
NORTH CAROLINA BOTANICAL GARDEN
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
September 29–December 16, 2012

Ender’s Enigma by Davis Whitfield took Best In Show at this year’s Sculpture in the Garden exhibition. There were four merit awards.