Natural Heritage Trail Reopens

On a wet, gloomy, April day the Natural Heritage Garden Trail and the Hunt Cabin were reopened to the public. SCBG Director Patrick McMillan and Vice President for Public Service Activities George Askew cut the ceremonial ribbon. An audience of about 70 dedicated Garden supporters, carrying colorful umbrellas and wearing waterproof clothing, braved the soaking rain to participate in the occasion.

As the group toured the newly renovated Trail, they discovered the Mountain and Piedmont sections are even stronger than before. Garden staff used the destruction from the flood of 2013 as an opportunity to make this part of the Garden more weather-resistant and accessible. This resurrection was facilitated by months of dedicated work by staff, volunteers, and students. Success could not have been achieved without donations from the University, the city of Clemson and many private individuals.

During the morning's activities, the Rich Cove Forest section of the Trail was dedicated to the memory of the Appalachian farm family of Lenore and Paul Rochester by Gene Rochester, their son, and his wife Phyllis.

Many of those touring the Trail finished their journey at the Hunt Cabin. Bobby Holliday, whose music is featured on Patrick's show “Expeditions with Patrick McMillan,” greeted visitors as he played his guitar on the porch. Once inside, a roaring fire and hot apple cider warmed everyone after the wet walk.
The slow and steady progress made this summer is beginning to show! We have finally finished installing all the bridges along the entire Natural Heritage Garden Trail. If you haven’t seen the new metal bridge design produced by the Clemson University student team, make sure you do. The bridges are incredibly beautiful and fitting for the Trail with a tiny footprint and are even 60% permeable to light. The student group also installed a new interactive art piece towards the top end of the Duck Pond. This exhibit uses an Archimedes wheel to bring water into a large basin at the top and, when full, dumps it into a splash basin, which is a stylized topographical map of the Garden showing how the 102 million gallons of water that coursed through the Garden on July 13, 2013 impacted the landscape.

The Natural Heritage Garden recovery has been strong, and we now have completed the restoration along the wooded portion of the Trail. The new recirculating waterfall in the Hunt Cabin meadow is also finished, and this exhibit is sure to attract lots of attention, bringing our visitors deeper into the Garden and enriching their experience. This area provides a unique planting space and opportunity to showcase some of South Carolina’s stunning plants native to rocky stream sides such as the imperiled Rocky Shoals Spider Lily. Several 3”+ rainfalls caused only localized washing of small areas and the Trail itself seems to be performing well, even when completely flooded!

Our collections and resources continue to grow. The new Carnivorous Plant exhibit in the meadow is being installed and should be stunning this autumn and next year. Our Southwestern collection has become one of the largest in the East and now has new interpretive signage. Education programs for both children and adults are thriving, weddings and events are happening and we’re gearing up for a new season of concerts this fall. Everywhere you look you see not only recovery, but growth.

Recovery and growth during this stressful time have required an incredible amount of dedication, effort and time on the part of the staff and the hundreds of volunteers who have turned this ordeal into a miracle. I can’t thank you enough for your help, your support and your dedication to your Garden. Recovery has taken its toll on the Garden and we need to grow our Friends program and continue to receive generous donations to maintain and grow this resource. Please help us by sharing the Garden with others and continuing to spread the word on just how important the Friends program is to our continued progress.

All the best, Patrick
Until you visit the new recirculating waterfall, you cannot truly appreciate the thought that went into this large project. Every rock is a piece of art, and the water runs in magical ways through the space, bubbling over pebbles and making tiny rivulets in unexpected places. Nature is already moving in; dragonflies hover over the surface, while tadpoles, frogs and even a turtle can be seen under the surface. New plantings have been added due to the hard work of our dedicated volunteers.

Similarly the new bridges along the Trail are also complex and beautiful creations. The image to the right is a detail of the new bridge that gently rises from the forest floor and spans a small creek to reach the nature-based sculpture Natural Dialogue.

During the spring, several large Palmetto trees were planted to join the Live Oaks already in place in the Maritime Forest exhibit. A small pond has been added to this area to provide a moderating temperature for these plants during the winter months.

Sue Watts

Garden Gala: Metamorphosis

Acknowledging the fanciest hats at the Gala. The winner was DeeDee Brandt with her rendition of the Natural Heritage Trail on her hat. Runners up were Elisa Sparks and Susanna Ashton. Special mention to Lee Jackson.

John Bodiford, garden manager, receives the Garden’s LEAF award (leadership, excellence, above and beyond, and family) from Patrick McMillan, garden director.
Plant Sale News

The Spring 2014 plant sale proved to be the most successful yet. Almost 1500 people visited the sale over the course of three days. This is our major fundraiser every year, and doing well financially at the sale is critical to the Garden’s survival.

Our volunteers are the backbone of this sale. We truly appreciate their dedication, professionalism and hard work. The sale’s success is dependent on their enthusiasm and support. Thank you all.

Educational Opportunity

PROPAGATING PLANTS
Dr. Jeanne Briggs will be offering a four-session class on plant propagation this fall. Class will meet weekly in the nursery and will explore the many aspects of plant propagation. Topics include taking cuttings, grafting, seed saving, germination, air layering and divisions. All materials furnished. Prices and dates are to be announced.

If you are interested, please contact Jeanne Briggs at jeanneb@clemson.edu

August

Thursday, August 28
COOL-SEASON VEGETABLE GARDENING
Would you like to harvest fresh, organic vegetables from your garden all year long? It’s easy to have an abundance of cool-season veggies in our usually mild winter climate. Vegetables well suited to cold weather include salad greens, spinach, collards, and kale, as well as turnips, beets, and other crops. Garden educator Lisa Wagner will provide an overview of successful fall to spring vegetable gardening practices. She’ll share cool-season kitchen gardening tips, including choosing the best fall and winter varieties, planning crop rotations, making the most of small spaces, succession cropping, and season extension.

Fee: $15
Time: 10 a.m. – 12 p.m.

September

Thursday, September 4
GARDEN NATURALIST: BIRDING IN THE GARDEN
Observe a peak time for bird migration in the Garden with Clemson naturalist Patrick McMillan. Patrick is the Garden’s Director and host of “Expeditions with Patrick McMillan,” and an expert birder. Discover the resident and migrant birds who make their homes in the Garden, their habits and foraging strategies. Bring binoculars and field guides and dress for the weather.

Fee: $30
Time: 7:30 a.m. – 10 a.m.
Location: Discovery Center Parking Area

Nature Center & Hunt Cabin Open 1 - 4 p.m.
Join us for free seasonal hands-on activities.

Sept 21  Nature Center: Flower Discovery
Sept 28  Hunt Cabin: Harvest Festival
Oct 19   Nature Center: Forest Giants
Oct 26   Hunt Cabin: Haunts and Haints
Nov 16   Nature Center: All about birds
Nov 23   Hunt Cabin: Games & toys
Dec 7    Nature Center: Winter solstice
Dec 14   Hunt Cabin: Decorate the cabin

Sunday, September 7
BOB CAMPBELL GEOLOGY MUSEUM OPEN HOUSE
Visitors and families are invited to tour the Museum free of charge, and enjoy various fun and educational activities during our annual day of family fun! Children will enjoy games, crafts, face painting, mineral/fossil sifting and scavenger hunts.

Fee: FREE admission (Craft activities up to $5)
Time: 1 – 4 p.m.
Location: Bob Campbell Geology Museum
Thursday, September 11
**CAPTURE THE EPHEMERAL: FLOWER AND LEAF POUNDING**

Leaf pounding is a simple, stunning technique originally used by Cherokee women to decorate fabric. In this class, walk with Garden educator Sue Watts to gather leaves and flowers in the Garden then, unleash your creativity to make a beautiful and unique piece of fabric to take home. You will also have the opportunity to pound on to paper to create beautiful cards and your own individual note paper.

*Fee: $15*

*Time: 10 a.m. – 12 p.m.*

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Wednesday, September 17
**DESIGNING WITH PLANTS**

A pleasing landscape depends on combining trees, shrubs, and perennials in ways that work over the seasons (and years). In this class, Garden educator Lisa Wagner will help you think about designing with plants with space and time in mind. She’ll also talk about using design elements such as shape, size, foliage texture, and color to maximize garden appeal throughout the year.

*Fee: $12*

*Time: 1:30 – 3:30 p.m.*

October

Thursday, October 9
**TAPPING INTO THE CREATIVE SIDE OF GARDENING**

Wonderful gardens often express the spirit and creativity of the gardener in their styles, plant combinations and exuberance. Explore the process of enhancing our garden-making and gardening experiences in this morning workshop with Garden educator Lisa Wagner, and based on Fran Sorin’s book *Digging Deep: Unearthing Your Creative Roots Through Gardening*. We’ll use some of the observing, remembering, imagining and envisioning exercises in her book. Bring a picnic lunch to enjoy in the Garden.

*Fee: $25*

*Time: 10 a.m. – 2 p.m.*

Wednesday, October 15
**FALL COLOR WALK**

Take a walk with a botanist Lisa Wagner to learn more about the ecology of fall color and leaf drop. During the walk, we’ll enjoy the leaves in the Garden and focus on the variety of tree and shrub leaf colors and talk about the species-distinct differences.

*Fee: $4*

*Time: 12 – 1 p.m.*

*Location: Meet at Caboose Parking Area*

Thursday, October 16
**GARDEN NATURALIST: GIANTS OF THE FOREST**

Enjoy a morning walk in the woods with Garden educator Sue Watts. Learn to identify familiar trees of South Carolina, discover their place in the forest ecosystem, and in human culture and history. (Look for the companion program: Winter Woody Tree Identification on January 29, 2015)

*Fee: $25*

*Time: 10 a.m. – 12 p.m*

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Thursday, September 18
**GARDEN NATURALIST: WOODLAND WILDFLOWER WALK**

Spend a fascinating morning with Clemson naturalist Patrick McMillan exploring the diversity of late summer wildflowers on the Natural Heritage Trail. At this time of year purple and gold plants dot the trail. On your walk become familiar with the beauty of the rare Schweinitz's sunflower, the endangered smooth coneflower and the soft yellow of whorled leaf coreopsis.

*Fee: $30*

*Time: 10 a.m. – 12 p.m.*

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**GARDEN COACHING: LANDSCAPE CONSULTATION**

Garden educator Lisa Wagner can help you think through your garden challenges in a two-hour design consultation at your property. Sessions are tailored to individual needs. Contact Lisa at lwagner@clemson.edu or call 864-656-3679.

*Fee: $145  ($125 for SCBG members and volunteer)*
Thursday, October 23
CAPTURE THE EPHEMERAL: CLAY IMPRESSIONS
In this morning workshop, let nature do the work. We’ll use clays and a variety of paints and inks to create one-of-a-kind masterpieces from nature. Join Garden educator Sue Watts on a fun walk to gather a variety of plant materials from the Garden and then unleash your creativity.
Fee: $20
Time: 10 a.m. – 12 p.m.

November

Tuesday, November 11
RE-VISIONING YOUR HOME LANDSCAPE
Do you want to improve your home landscape? Whether it’s open, overgrown, or something in between, Garden educator Lisa Wagner can help. This creative workshop focuses on turning your existing yard into a garden that’s attractive and sustainable. Through photo analysis and (virtual) site visits, the class will collaboratively focus on participants’ landscapes. Bring digital files or large format (8x10” or larger) photos of the areas in your landscape that you’d like to work on and a site map or plan of your property to the class. Workshop size is limited to 8.
Fee: $20
Time: 10 a.m. – noon

Thursday, November 13
GARDEN NATURALIST: LIKIN’ LICHENS
Small, and often overlooked, lichens have a vibrant cultural history, in addition to being key indicators of environmental health. Some lichens are plain and undistinguished, others are more elaborate, and suggestive of a fairytale world fit for elvin creatures and mythical beasts. Begin in the classroom with an overview of lichen diversity, then join Garden educator Sue Watts to hunt for these miniature organisms in the Garden and learn more about their place in the natural world.
Fee: $25
Time: 9 a.m. – 12 p.m.

Family & children

Fridays
LITTLE CRITTERS VIEW, READ & DO
Have fun exploring the natural world in each fun-sized class. We'll hold your little one’s interest with a short educational video/demonstration, story time and a hands-on activity. Bring a picnic lunch and continue exploring the Garden after the program.
September 19  JOHNNY APPLESEED
October 17  THINGS THAT GO BUMP IN THE NIGHT
November 14  FOREST FRIENDS
December 19  WINTER WONDERLAND
Fee: $3
Time: 10 – 11 a.m.

Friday, September 12
HONEYBEE HOOTENANNY
Learn about the power of pollination and the importance of honeybees as pollinators. Allison Jones and Kendra Vincent will guide you on the honeybee’s quest for pollen, and nectar and get a chance to observe real honeybees and taste the sweet reward of their work.
Please register at least 3 days in advance.
Fee: $7
Time: 3:30 – 5:30 p.m.

Friday, September 26
DIARY OF A WORM
In this program, led by Allison Jones and Kendra Vincent, dig deep to uncover the interesting lives of worms. After a fun story, enjoy taking an up-close look at real worms and learn to appreciate all these wiggly little guys do for us. While playing a game, learn about compost, each participant will create his/her own miniature worm bin to take home.
Please register at least 3 days in advance.
Fee: $6
Time: 3:30 – 5:30 p.m.

Friday, October 10
HARVEST CELEBRATION
Why do seasons change? What is the Autumnal Equinox? Allison Jones and Kendra Vincent explore the answers to these questions and how the autumn harvest has been celebrated around the world and throughout history. Celebrate nature’s bounty by churning butter, making fresh apple cider in an old-fashioned apple press, cooking popcorn over the campfire. Hunt for pumpkins in the Children’s Garden. Register 3 days in advance.
Fee: $9
Time: 3:30 – 5:30 p.m.
Use our **ONLINE REGISTRATION SYSTEM** at [www.clemson.edu/scbg](http://www.clemson.edu/scbg) to register. Please preregister for all programs - call to check for last minute availability.

**Wednesday, October 29**

**TAILS FROM THE GRAVE**
In this creepy-cool program, be haunted by the ghosts of nature’s past. Examine skeletons and skulls and learn how they can transform from bone to stone. Children will enjoy viewing a collection of real fossils and create fossil casts and a creepy critter craft to take home. Cured casts can be picked up after 24 hrs. Please register at least 3 days in advance. 
Fee: $8  
**Time:** 3:30 – 5:30 p.m.

**Friday, November 7**

**PAINTING WITH SOIL**
In this program, the dirty is also quite pretty. Allison Jones and Kendra Vincent explore the world beneath our feet and unearth techniques for creating beautiful art with soils. Artists will enjoy creating muddy masterpieces. Register at least 3 days in advance. 
Fee: $5  
**Time:** 3:30 – 4:30 p.m.

**Friday, November 21**

**THANKS TO NATURE**
Native Americans considered the materials and foods they harvested from the environment to be valuable gifts. Allison Jones and Kendra Vincent explain interesting ways that natural material were used and celebrated by Native Americans. Enjoy viewing Native American artifacts, visiting the Cherokee Worldview Garden and creating Cherokee pinch pots to take home. Please register at least 3 days in advance. 
Fee: $7  
**Time:** 3:30 – 5:30 p.m.  
**Location:** Bob Campbell Geology Museum

**Friday, December 5**

**WINTRY WREATHS**
‘Tis the season for wreath making. While sipping on cider and cocoa, children learn about evergreens and conifers and the interesting history of using them in winter decorations. We’ll make lovely, fragrant evergreen wreaths to decorate our homes or give as gifts. This program is for children and adults. Please register at least 5 days in advance. 
Fee: $10 for small, $25 for large  
**Time:** 3:30 – 5:30 p.m.

**Friday, December 12**

**HANDMADE FOR THE HOLIDAYS**
In this program, let nature’s beauty inspire as we create several seasonal crafts using natural materials from the Garden and beyond. Projects include tree ornaments, door hangers, botanical candles, and fragrant herbal sachets. Alongside each craft, learn fun facts about the natural world. Adults accompanying children are encouraged to register, if interested in making projects themselves. Please register at least 5 days in advance. 
Fee: $13  
**Time:** 3:30 – 5:30 p.m.

**Mondays, Sept 15, 22, & 29, Oct 6, 13, 20, & 27**

**JUNIOR GARDEN CLUB**
In this after school garden club, kids (6-12) learn the basics of gardening with Garden educator Sue Watts. Discover the secrets of soil and composting, and meet some wriggly worms. Plant fall vegetables and flower seeds, tend seedlings and transplant them into the Children’s Garden. Explore the Garden’s insects and birds and create habitat for them. In every class, we’ll sample fresh veggies and explore different ways to prepare and enjoy them. All participants receive a T-shirt; those participating in 5 of the 6 sessions will be certified as a SCBG Junior Gardener. 
Fee: $45 series  
**Time:** 3:30 – 5 p.m.

**Tuesdays, Sept 16, 30, Oct 14, 28, Nov 11 & 25,**

**4-H JUNIOR NATURALIST CLUB**
This year’s Junior Naturalist Club for elementary students (6-12) will explore the airborne world. Join us as we enter the worlds of bees, butterflies, birds and much more. All participants receive a T-shirt; those participating in 5 of the 6 sessions and completing a service project will be certified as a SCBG Junior Naturalist. 
Fee: $60 series  
**Time:** 3:30 – 5 p.m.

**Wednesdays, September - November, March - May**

**GARDEN SPROUTS**
Preschool children (3-5) and caregivers discover the wonders of the Botanical Garden with Garden educator Sue Watts. Garden Sprouts uses imaginative and fun ways to learn about plants and animals using music, stories, arts and crafts, nature walks, and observation to explore each week’s seasonal theme. Younger siblings are welcome, but need to be able to go “off-road”. 
Fee: $4 per family (max 3 children)  
**Time:** 10 – 11 a.m.
Celebrating a tricentennial: The Hanover House

This year marks the three hundredth anniversary of this enduring Colonial treasure. Help celebrate this milestone by revisiting this unique lowcountry property located to the Botanical Garden.

The Hanover House was initially designed by French Huguenot Paul de St. Julien as an entirely brick residence. Construction began in 1714, but after using his allowance of bricks for a basement and foundation, he completed the structure in 1716 with wood siding of insect and rot resistant lowcountry cypress. Paul and his wife Mary Amy Ravenel celebrated its completion by carving the inscription “Peu à peu” or “Little by little” into the chimney mortar. So begins the story of the quaint Colonial structure located not far from the Hayden Center in the South Carolina Botanical Garden.

The Hanover House is a survivor: an outpost during the Yamasee War, witness to the Swamp Fox heroics of the American Revolution, a residence whose owner was killed during the Civil War and ultimately a survivor of the Santee Cooper basin flooding. The nationally significant Hanover House has settled and bloomed in the Garden for the past 20 years.

The current site features the Master Gardeners’ vegetable plot encompassed by black locust split rail fences and heirloom apple trees, a perfect place to image an earlier era. Revisit the Hanover House today and rediscover the early beginnings of the Palmetto State when lowcounty rice production was white gold and early explorers Mark Catesby, André Michaux, and William Bartram explored the flora and fauna of the colony.

Hanover House was furnished as a house museum through the generosity of the National Society of the Colonial Dames and members of the St. Julien and Ravenel family.

Open on weekends: Saturdays, 10:00 a.m.-12:00 p.m. & 1:00 p.m.-4:30 p.m. and Sundays, 2:00-4:30 p.m.
Group tours for 10 or more can be scheduled in advance on weekdays.
For more information, contact the Historic Properties at 864-656-2475 or via email hisprop@clemson.edu or visit www.clemson.edu/hanover
Thank you for making generous donations between 2/7/2014 and 6/13/2014. New donors are listed in green. Welcome! All at the Patron, Magnolia, Diamond, Maple, Emerald, Camellia, and Sapphire levels are joint Garden and Museum members.

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We apologize for any errors or omissions. Please contact Membership & Gifts Manager Lashaunda Soto at 864-656-3405 or lwhitte@clemson.edu with any corrections.
Crimson bee balm (*Monarda didyma*) is a 2-5 ft. tall herbaceous perennial with a square stem, pungent opposite leaves, and a terminal whorl of 2-lipped, bright red flowers with showy reddish leaf-like bracts. Look for it growing on seepage slopes, stream banks, and roadside ditches mainly in the mountains. You may also find it in moist sunny areas of wildflower gardens. Crimson bee balm differs from the four other native species of *Monarda* in the mountains and piedmont by its bright red flowers (which bloom from July until October).

The odorless, red, tubular, nectar-rich flowers of crimson bee balm fit the classic syndrome of a hummingbird-pollinated plant. Hummingbirds use the lower lip of the flower to orient their beaks into the narrow opening of the corolla tube within which the nectar is located. In the process, pollen is deposited on top of their head between the eyes, producing a yellow spot that is easily seen. As hummingbirds fly from flower to flower of crimson bee balm, they deposit large amounts of pollen onto the stigmas. Because anthers shed their pollen at a time when the stigmas aren’t yet receptive, successful reproduction depends on pollinators transferring pollen from anthers to receptive stigmas on other flowers. Individual flowers typically remain open for several days, increasing the chances of successful pollination.

Tim Spira is a Professor of Botany at Clemson University and author of *Wildflowers and Plant Communities of the Southern Appalachian Mountains and Piedmont* (UNC Press, 2011).