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CONNECTICUT COLLEGE
ARBORETUM ANNUAL REPORT

2011/2012



CONNECTICUT
COLLEGE

MISSION

The Connecticut College Arboretum is owned by Connecticut College and operated for the benefit of the College and the community. The Arboretum functions in support of the College's mission by helping to prepare men and women for a lifetime of learning about and interacting with the natural world. The mission of the Connecticut College Arboretum is:

TEACHING

To provide an outdoor laboratory for use by faculty and students in botany, biology, environmental studies and other departments. In both teaching and research, the Arboretum is a unique and valuable academic resource and support facility.

RESEARCH

To support and conduct research in a broad range of subjects, including ecology, field biology, conservation and natural history. Arboretum research emphasizes long-term studies.

CONSERVATION

To provide stewardship of College lands by protecting, sustaining and enhancing biological diversity of large tracts of open space. The Arboretum also provides leadership statewide and beyond in conservation matters.

COLLECTIONS

To maintain, develop and interpret well-documented plant collections for teaching, research, public education and enjoyment.

RECREATION

To provide a place where people from the College and the community may enjoy passive recreation and where they may come to learn, reflect and renew themselves through contact with the natural world. The Arboretum enhances the quality of life both for the constituents of the College and the citizens of southeastern Connecticut.

PUBLIC EDUCATION

To provide programs and publications about conservation, horticulture, gardening, botany and natural history that enhance people's understanding of the natural world and foster an understanding of the Arboretum's mission.

CONNECTICUT COLLEGE

James S. Berrien '74, *Chair, Board of Trustees*
Leo I. Higdon, Jr., *President*
Roger L. Brooks, *Dean of the Faculty*

ARBORETUM STAFF

Glenn D. Dreyer MA'83, *Charles and Sarah P. Becker '27 Director*
Katherine T. Dame '90, *Assistant Director for Public Programs*
Leigh Knuttel, *Horticulturist*
Charles McIlwain III, *Senior Groundsperson*
Bryan L. Goulet, *Senior Groundsperson*
Charles Cochran '10, *Groundsperson*
Mary Villa, *Curator/Information Manager*
Elene Anthopolos, *Staff Assistant*

ASSOCIATES

Robert A. Askins, *Research Associate*
Phillip T. Barnes, *Research Associate*
Beverly A. Chomiak, *Research Associate*
John W. Deering, *Earth Management Consultant*
Pamela G. Hine MA'84, *Research Associate*
Chad C. Jones, *Research Associate*
Manuel Lizarralde, *Research Associate*
Stephen H. Loomis, *Research Associate*
T. Page Owen, *Research Associate*
Douglas M. Thompson, *Research Associate*
R. Scott Warren, *Research Associate*

CAMPUS GROUNDS STAFF

James Luce, *Grounds Supervisor*
Al Benvenuti, *Groundsperson*
Lewis Bowker, *Arborist*
Mike Campagna, *Groundskeeper*
Kraig Clark, *Groundskeeper*
Lynn Manza, *Groundskeeper*
Kevin Marshall, *Groundsperson*
Tom Nazarko, *Groundsperson*
Zigmund Korenkiewicz, *Groundsperson*
Joe Serwinski, *Senior Groundskeeper*
George Yugas, *Head Mechanic*

DIRECTOR'S LETTER

Highlights

THE 2011-12 SCHOOL YEAR was exciting and disruptive at the same time, thanks to the major renovation and new addition project at New London Hall. The work required closing both the main road north from the gatehouse and the main sidewalk at the northeast corner of Tempel Green, affecting everyone on campus. New London Hall was the first academic building at Connecticut College, even housing the library and the president's office until other facilities were constructed nearby. I was told that it was built from stone quarried from what soon became the Arboretum, as were the three nearby dorms locally known as "The Quad." One by one, programs and people moved out over the last century. By the mid-1980s New London Hall became the exclusive home of the life sciences and the Arboretum.

The first big change to the building came in 1935 when Arboretum Director and Botany Chairman George Avery secured a grant from the Rockefeller Foundation to construct the greenhouse, complete with air-conditioned laboratory space in the basement. This facility was always managed by the Arboretum staff. In the early 1980s, the interior of New London Hall received a facelift and some space rearrangement, and the grand wooden staircase up the middle of the building was replaced with an elevator. In 1995 the Arboretum office moved across the street to the Olin Science Center.

Beginning in summer 2011 New London Hall was stripped back to its stone block walls and completely rebuilt. An addition was connected to the east side and, thanks to the College's commitment to sustainability, the entire facility is heated and cooled by a geothermal system attached to a series of 40 wells under Tempel Green. The Arboretum staff was primarily concerned with renovations to the 80-plus-year-old greenhouse, which was expertly redesigned and rebuilt by greenhouse specialist Rough Brothers Inc. The foundation and frame are all original, but it now features new safety glass, electrical service and modern climate control systems.

This year's annual report details the Arboretum's major accomplishments as our staff and students diverted around a big construction site in the heart of campus. Some might think the biggest news is the first nesting record of bluebirds in the Arboretum's history (after 60 years of detailed bird-watching records). Others might appreciate the path lights installed from Buck Lodge to the main entrance of the Native Plant Collection that help them exit after enjoying Flock Theatre's Shakespeare in the Arboretum. Many will certainly enjoy the new Lillian Niederman Garden on the south side of the College Center with its New England native meadow theme. What I appreciate most is the hard work of our staff and students, and the excellent support we receive from the many volunteers, members, alumni and friends of the Arboretum who make it all possible.

Glenn D. Dreyer

Charles and Sarah P. Becker '27 Director

“WHAT I APPRECIATE
MOST IS THE HARD
WORK OF OUR STAFF
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VOLUNTEERS, MEMBERS,
ALUMNI AND FRIENDS
OF THE ARBORETUM ...”



ABOVE: MEMBERS AND FRIENDS NIGHT SPEAKER HANNAH HOLMES PRESENTED FROM HER BOOK "SUBURBAN SAFARI"

TOP RIGHT: GNOME HOME BUILDERS

BOTTOM RIGHT: KEITH BOWMAN LEADS A MOSS IDENTIFICATION WORKSHOP

PUBLIC EDUCATION AND OUTREACH

Public Education

ASSISTANT DIRECTOR KATHY DAME develops and oversees the Arboretum’s public education programming with the help of a volunteer committee. The children’s programs are promoted under the title “Let’s Explore! Nature Activities for Kids ...” Approximately 520 adults and 250 children participated in Arboretum education programs this year.

ADULTS

PROGRAM TYPE	NO. OF EVENTS
Conference	2
Lecture/Short Course	3
Guided Walk	7
Workshop	6
Plant Sale	2
Photography Contest	1

CHILDREN

PROGRAM TYPE	NO. OF EVENTS
Workshops	8
Walks	4
Storytelling	2

TOTAL 35

Some of the highlights this year included an ethnobotanical walk in the Native Plant Collection with ethnobotany Professor Manuel Lizarralde; a two-part digital photography workshop with Roger Riley; a workshop on growing “microgreens” at home presented by Mark Braunstein; and another on novel uses of herbs with Karen O’Brien. Interpretive walks included winter waterfowl, Mamacoke geology, autumn color, spring wildflowers, native meadows and campus trees.



CHILDREN'S HOLIDAY ORNAMENT
WORKSHOP

ROBERTA BROUWER AND KATHY
DAME LEAD PUMPKIN CIRCLE WITH
STORIES, MUSIC AND GAMES



An all-day workshop for professional and informal teachers, “Opening the Circle: Teaching about Trees, Birds, and Migration through Indigenous Stories and Earth Activities for Children,” was presented by Michael Caduto, an internationally known author, storyteller, science teacher and environmental studies expert. This year’s ecological landscape design conference, the 23rd consecutive collaboration between the Arboretum, the University of Pennsylvania Morris Arboretum, and New Directions in the American Landscape, was “Conversations Across Fields: Interdisciplinary Approaches to Ecological Landscape Design.” It brought about 95 green-industry professionals from across the Northeast to our campus for two days in January. The annual S.A.L.T. conference for homeowners last November, “The ABCs of Creating Your Own Garden of Eden,” featured garden designer and author C. Colston Burrell as a presenter.

Outreach

CAPTURING THE BEAUTY OF NATURE 2012

THE 13TH ANNUAL PHOTO CONTEST this year attracted the largest number of entries ever, with a total of 124 in three categories. Our thanks to judges Ulysses Hammond, Eileen Jenkins and Anne-Marie Lizarralde, who had to select a few winners from a plethora of extraordinary entries. All of the photographs were on display for three weeks on the first floor of the Olin Science Center.

CHILDREN

- 1st Place Bethany LaFramboise for “The End”
- 2nd Place Christina Konstantinidis (untitled)
- 3rd Place Kaleigh Waters for “Reflection of Clouds”

TEENS

- 1st Place Aurora Hooper for “Peace and Quiet”
- 2nd Place Jackie Zerio for “Reflection”
- 3rd Place Madelaine Kollegger for “Free Floating”

ADULTS

- 1st Place Bethany McMahon for “No Such Luck”
- 2nd Place Kathleen Scovish for “Butterfly Kisses”
- 3rd Place Jessica McLean for “Breaking Dawn”

TOURS

VOLUNTEER DOCENTS led free guided tours of the various Arboretum plant collections on Sunday afternoons from May through October. During the summer, when the Arbo Project does not operate, volunteers provided tours for approximately 160 children.

The Arbo Project, in which Connecticut College student volunteers lead environmental education walks, hosted 128 children from the greater New London community this year. The project is a collaboration between the Arboretum and the College's Office of Volunteers for Community Service.

In September Glenn Dreyer gave a tour of campus trees to a University of Connecticut urban forestry class and, in October, to 50 tree lovers who traveled by bus from Hartford to view the campus landscape. That event was arranged by the Hartford County Cooperative Extension Office.

Other Outreach

FLOCK THEATRE'S annual Shakespeare in the Arboretum presented "King Lear" and "The Comedy of Errors" during summer 2011. Beyond the Arboretum, last September Glenn gave a guided walk at Riverside Park in New London as part of a community gathering to increase appreciation of that public space. Botany Professor Chad Jones and Glenn led a Connecticut Botanical Society field trip in August to Lothrop Meadows, a preserved open-space parcel near downtown Norwich. A detailed plant species list generated from three different visits was given to the local committee that manages the site. Glenn gave illustrated talks about the Arboretum to the New London Rotary and at the senior center in Old Lyme, Conn.

Kathy Dame continues to mentor the Connecticut chapter of Wild Ones, a national organization of native plant gardening enthusiasts. The chapter meets once a month on campus for educational programs.



ONE OF THE PRIZE-WINNING PHOTOGRAPHS, "BUTTERFLY KISSES" BY KATHLEEN SCOVISH



DIRECTOR GLENN DREYER SIGNS A COPY OF "GREENING CONNECTICUT'S CITIES AND TOWNS" DURING A CAMPUS TREE TOUR

RIGHT: VOLUNTEERS, STAFF AND SHOPPERS AT THE MOTHER'S DAY PLANT SALE

BELOW: MESKWAKA TREE TRAINING PROGRAM PARTICIPANTS LEARN CORRECT TREE-PLANTING TECHNIQUE





FROM LEFT, COLIN LANG '14,
LILLIAN FAYERWEATHER '13, MILAN
SAUNDERS '13 AND MICHAEL
LEDUC '14 SURVEY THE BOLLESWOOD
NATURAL AREA VEGETATION IN
SUMMER 2012 WITH PROFESSOR
CHAD JONES

THE SEVENTH DECADAL Bolleswood Natural Area vegetation survey was begun in June 2012 under the supervision of Professor Jones. Lily Fayerweather '13, Colin Lang '14, Michael Leduc '14 and Milan Saunders '13 spent the summer recording the types of plants and their size along four 20-foot-wide transects approximately 1,000 feet in length. This research program was begun by Professors Richard Goodwin and William Niering in 1952, and is supported by an endowment that Professor Goodwin established to generate just enough income for the summer wages every 10 years. One of the longest-running vegetation studies in the world, it has generated invaluable information about changes in unmanaged forests over more than half a century.



The Arboretum initiated a meadow restoration project on the Matthies Tract in 2004. After initially clearing woody vegetation, staff seeded a five-acre area with a mixture of native grasses and wildflowers in 2006. Professor Chad Jones, Nels Barrett '78 and Arboretum Director Glenn Dreyer did detailed plant census work in seeded and unseeded locations in the project area in 2008 and 2010. An article about the project and the resulting meadow vegetation was accepted this spring for publication in the *Natural Areas Journal*. Although many early successional habitat restoration projects have been done in New England, this is the first published documentation in the professional literature. We expect this paper to be helpful to land trusts and other organizations that undertake such projects.

Professor Robert Askins worked with Mary Buchanan '14, Clara Chaisson '12 and Diane Hitchcock '75 this summer on the long-term breeding bird population study in the Bolleswood Natural Area. This research was also initiated by Professors Niering and Goodwin in the early 1950s and has been continued by Professor Askins since the early 1980s. The data from this study has helped to document variations in bird populations associated with changes in the Bolleswood vegetation and the regional environment. Professor Askins and his research assistants also did spot mapping of birds in both the meadow restoration area on the Matthies Tract and the reclaimed meadows around the Samuel Bolles farm site north of Gallows Lane. They reported that bluebirds were nesting in boxes erected in both of the restored meadows. This is the first Arboretum nesting record of this species in 60 years of observations, and indicates that the restorations are meeting the goal of providing early successional habitat for uncommon species. Monitoring of chimney swifts on campus was also part of the summer bird research agenda.

For the past several years Professor Jones has been testing mathematical models that attempt to predict the spread of invasive species using historical data collected from the Bolleswood vegetation surveys. He has found that these models, which are commonly used around the world, work in the short term but perform poorly over time. A manuscript based on this research has been accepted for publication in the journal *Forest Ecology and Management*.

Professor Jones, George & Carol Milne Associate Professor of Biology Anne Bernhard, and Jean C. Tempel '65 Professor of Biology Steve Loomis began a research project studying the effects of climate warming on salt marsh vegetation, invertebrates and microbes. They are particularly interested in how warming will affect interactions among these groups of organisms. During the past year they conducted pilot studies at Mamacoke marsh to test methods of experimentally warming temperatures.

Director Glenn Dreyer continued to lead a committee that compiled a new checklist of the native and naturalized vascular plants of Connecticut. The list is in the proofread-

ing stages and should be published in the coming year by the Connecticut Botanical Society. Professor Jones is developing a database to make the list searchable online.

The Arboretum continues to cosponsor the Connecticut Notable Trees Project. New volunteers have added much enthusiasm and productivity to the effort to document the state's big and historic trees. This year 14 national champion trees, the largest of their kind in the country, were documented in the state; in previous years fewer than half that number of Connecticut trees ever made the national list. The project's website (search keywords: notable trees) contains data on more than 3,000 trees statewide.

The next Arboretum publication will be produced in collaboration with the Connecticut Department of Energy and Environmental Protection. Glenn Dreyer is editing a manuscript titled "Trap Rock Ridges of Connecticut, Natural History and Land Use." The authors are Penni Sharp, an environmental consultant and naturalist; Ralph Lewis, former state geologist and a visiting instructor at the College; and David Wagner, an entomology professor at UConn. The new bulletin should be complete by early 2013.

Each year numerous College classes make use of the Arboretum and greenhouse for teaching and research. This year they were:

- Bot 115 – Introduction to Botany: walking tours highlighted New England forest history; used samples of many plants for weekly identification study.
- Bio 105 – Organisms: collected mosses from the Arboretum; grew "fast plants" in greenhouse.
- ES 111 – Environmental Studies as a Social Science: walking tour in the Native Plant Collection emphasized biodiversity initiatives.
- ES 120 – Introduction to Environmental Geology: mapped geological hazards on Mamacoke.
- Bio 204 – Ornithology: four field trips in the Arboretum.
- Bot 205 – Plants, Protists and Fungi: field labs to collect fungi, mosses and grasses (for hay infusions to grow protists); collected mycorrhizae and observed gymnosperms; used ferns from the greenhouse.
- Bio 207 – Ecology: four field labs; one multi-week experiment in the greenhouse; collected plankton from the Arboretum pond.
- ES 312 – Introduction to Vector-Based GIS: three students did vegetation mapping projects in the Arboretum.
- ES 316 – Coastal Dynamics of Southern New England: field trip to Mamacoke.
- Bio 431 – Comparative Physiology: studied invertebrate populations during the transition from fall to winter, looking at cold adaptation.

9



FROM LEFT, MARY BUCHANAN '14, CLARA CHAISSON '12 AND PROFESSOR BOB ASKINS MONITOR BLUEBIRD NEST BOXES AT THE SAMUEL BOLLES FARM SITE



LEFT: STUDENTS HELP MOVE PLANTS FROM THE GREENHOUSE TO A TEMPORARY SHADE HOUSE

RIGHT: BY MIDSUMMER 2012, OLD GREENHOUSE GLASS HAS BEEN REMOVED AND PREPARATION FOR THE NEW GLASS HAS BEGUN



ARBORETUM COLLECTIONS consist of the Caroline Black Garden (four acres, established in 1928), the Native Plant Collection (30 acres, established in 1931) and the campus landscape (125 acres, became part of Arboretum in 1998). Curation of the woody plants in these collections includes inspecting each plant every five years and recording pertinent information in a database and on maps. Individual accessioned plants in the Native Plant Collection and Caroline Black Garden are tagged with metal labels containing the scientific name and a unique identifying number. Plants on campus are not individually tagged, but are located by detailed maps, as are plants in the other two collection areas.

Campus

A **BEQUEST** from Miriam Harris '55 established a garden in her mother's memory. Since Ms. Harris wanted some specific, non-native plants to be used in the Lillian Niederman Garden, Glenn Dreyer worked with Grounds Supervisor Jim Luce to choose a campus location immediately south of the College Center at Crozier-Williams. Contractors removed a line of a dozen tall, dying hemlock trees last fall, and Larry Weaner Landscape Design Associates of Glenside, Pa., designed and installed the garden. The inspiration for the planting was the field and savannah landscape in the Arboretum north of the eastern end of Benham Avenue. Beyond the few exotic species specified by the donor, all others are cultivated varieties of native plants. The plantings and a circular bench were installed in mid-May 2012. Part of the gift was used to establish an endowment fund for future maintenance.

During summer 2011 the muddy area crisscrossed with foot trails south of Smith and Burdick houses was transformed into an attractive plaza with concrete walks and patios, benches, bike racks, and dense plantings of mostly native shrubs and perennials. Designed by Kent Frost Landscape Architecture of Mystic, the concept was developed by architectural studies major Brendan Kempf '10, who was an intern with the firm last year.

One of the first steps in the renovation of New London Hall beginning in spring 2011 was the removal of a large black oak and a Norway maple from the west side of the building. The Arboretum kept and stored three very large logs from the trees and contracted with City Bench to bring a portable sawmill to the Arboretum in February to slice the logs into two-inch-thick slabs. Some of this wood was incorporated into the Science Center at New London Hall as countertops and signs.

The New London Hall renovation project included the College greenhouse. After reducing the number of plants to a bare minimum during the preceding year, all remaining specimens were removed to a nearby shade structure. By June 2012 the old

glass was off and new glass was being installed onto the original frame, which was still in excellent shape.

Caroline Black Garden

THE THREE-YEAR PROJECT to renovate the water feature area at the bottom of the Caroline Black Garden in a Japanese style was completed this year. Arboretum staff constructed a cedar-post-and-bamboo entry gate and completed additional stone work and plantings. The renovated space was opened to the public in a June 10 program that included a lecture on Japanese gardens by designer Stephen Morrell and a tour of the garden. The project was dedicated to the memory of the late Jeff Smith, Arboretum horticulturist, and a bronze plaque to that effect was installed on a stone bench overlooking the stream.

Native Plant Collection & Natural Areas

TROPICAL STORM IRENE blew into Connecticut on Aug. 28, 2011, causing power outages that lasted more than a week in some nearby towns. About 23 trees in the Native Plant Collection were uprooted or severely damaged and had to be removed. The impact to the collection was much less significant than Hurricanes Gloria and Bob in the 1980s. A combination of Arboretum staff and commercial arborists completed the cleanup, as was the case with the trees on campus, which sustained minimal damage.

Renovation of the Rose Family plant collection was completed this year. Five new species of native shrubs were added, plus five cultivated varieties of shrubby cinquefoil. The final step in this project will be the installation of a rustic gazebo.

Curator Mary Villa and her student assistants, with the help of GIS specialist and environmental studies lecturer Beverly Chomiak, have continued to convert hand-drawn Native Plant Collection accession maps to electronic Arc-GIS format. Mary and the students completed an inventory of the Native Plant Collection last summer and will complete an inventory of the Caroline Black Garden in 2012.

In a continuation of the project to keep deer from jumping over fences into the collections and natural area, a new, 10-foot-high, black chain-link fence was installed around



FROM TOP: CAROLINA ROSE IN THE RENOVATED ROSE FAMILY COLLECTION

NEW LIGHTS ON THE ARBORETUM LAUREL WALK

THE NEW PLAZA SOUTH OF SMITH AND BURDICK HOUSES, ACROSS FROM SHAIN LIBRARY



RIGHT: GARDEN DESIGNER STEVEN MORRELL SPEAKS AT THE OPENING OF THE JAPANESE-INSPIRED RENOVATION OF THE CAROLINE BLACK GARDEN WATER FEATURE AREA



BELOW: A PORTABLE SAWMILL CUT OAK AND MAPLE LOGS FROM TREES REMOVED NEAR NEW LONDON HALL INTO SLABS FOR FUTURE USE.

the president's yard. This forms the southeastern boundary of the Native Plant Collection and replaces a rusty six-foot chain-link fence that was not tall enough to deter deer. The perimeter of the 100-acre area south of Gallows Lane and west of Williams Street is nearly all fenced to the new 10-foot standard now. The exception is the fence behind the houses on Bloomingdale Road and the decorative iron fence along Williams Street.

During 2011-12, "campus standard" pole lights were installed from the Native Plant Collection main entrance, down the Laurel Walk, through the theater and up to Buck Lodge. Ten concrete bases were installed and wired in, and five were mounted with lights last fall. This June, the five remaining lights were installed. Switches in the bases of the two lights in the theater allow those to be shut off during performances.

The town of Waterford began installing sanitary sewers on Benham Avenue from Harrison's Landing to Old Norwich Road in spring 2012. The contractors received permission to use the Arboretum field south of Benham and next to the railroad tracks for equipment and material storage. The College sold the town a small parcel of Arboretum land next to the railroad tracks for a pumping station. The project is expected to be completed by December 2012.

NEW PLANTINGS BY COLLECTION

CAMPUS LANDSCAPE

New Plaza between Smith House and Branford House

- Acer saccharum* 'Green Mountain.' Sugar Maple
- **Buxus* 'Green Velvet.' Boxwood
- Hydrangea quercifolia*. Oakleaf Hydrangea
- Leucothoe axillaris*. Coast Leucothoe
- **Pieris japonica* 'Cavatine.' Japanese Andromeda

Lillian Niederman Garden

- Amelanchier canadensis*. Eastern Shadbush
- **Aronia melanocarpa*. Black Chokeberry
- Juniperus virginiana* 'Corcorcor.' Emerald Sentinel Eastern Redcedar
- **Juniperus virginiana* 'Idyllwild.' Idyllwild Eastern Redcedar
- Juniperus virginiana* 'Grey Owl.' Grey Owl Eastern Redcedar
- Prunus americana*. American Plum
- Rhododendron calendulaceum*. Flame Azalea
- Rhododendron cumberlandense*. Cumberland Azalea



Rhus aromatic 'Gro-low.' Gro-low Fragrant Sumac
**Syringa x prestoniae* 'James Macfarlane.' James Macfarlane Lilac

Other Campus Plantings

Albizia julibrissin. Silk Tree
Carpinus caroliniana. American Hornbeam
**Pseudolarix amabilis.* Golden Larch
Rhododendron 'Delaware Valley White.' Delaware Valley White Rhododendron
Taxus baccata 'Repandens.' Spreading English Yew

CAROLINE BLACK GARDEN

**Pseudolarix amabilis.* Golden Larch
Rhododendron catawbiense 'English Roseum.' Catawba Rhododendron
**Rhododendron* 'Jane Grant.' Jane Grant Rhododendron.

NATIVE PLANT COLLECTION

Rose Family Area

Amelanchier x grandiflora 'Cole's Select.' Serviceberry
Amelanchier nantucketensis. Nantucket Shadbush
Aronia arbutifolia. Chokeberry
Juniperus communis 'Repanda.' Prostrate Juniper
Potentilla fruticosa 'Goldfinger.' Shrubby Cinquefoil
**Potentilla fruticosa* 'Pink Beauty.' Shrubby Cinquefoil
**Potentilla fruticosa* 'Red Ace.' Shrubby Cinquefoil
**Potentilla fruticosa* 'Snowbird.' Shrubby Cinquefoil
Rosa carolina. Carolina Rose
Spiraea tomentosa. Steeplebush

Other new plantings in the Native Plant Collection

Acer saccharum. Sugar Maple
Cercis canadensis. Redbud
Ilex verticillata forma *chrysocarpa.* Yellow Winterberry
Magnolia grandiflora 'Bracken's Brown Beauty.' Bracken's Brown Beauty Magnolia
**Magnolia grandiflora* 'Edith Bogue.' Edith Bogue Magnolia
Platanus occidentalis ' '. American Sycamore from Gettysburg
**Diervilla sessilifolia* 'Butterfly.' Shrub Honeysuckle
Rhododendron canadensis. Rhodora
**Rhododendron groenlandicum.* Labrador Tea
Swida alternifolia. Alternate Leaf Dogwood

*New taxa

ACCESSIONS BY COLLECTION

AS OF JUNE 2012 there were 6,000 living plants accessioned, mapped and entered into our plant collections database (BG-Base). The plants are distributed by collection as follows:

	TREES	SHRUBS
Campus Landscape	1,395	1,723
Caroline Black Garden	163	425
Native Plant Collection	1,033	1,261 (and vines)
Total specimens	2,591	3,409



THE LILLIAN NIEDERMAN GARDEN
 JUST AFTER PLANTING IN MAY,
 SOUTH OF THE COLLEGE CENTER

The Arboretum is grateful for the generous support provided through the following endowed funds:

- Charles and Sarah P. Becker '27 Arboretum Directorship Fund
- Endowed Unrestricted Arboretum Fund
- Class of 1944 Special Projects Fund
- A. Clayton Scribner Arboretum Library Fund
- Sally and Roy Taylor Arboretum Endowed Fund
- Arboretum Director's Discretionary Fund
- Arboretum Development Fund
- Arboretum Plant Fund
- Bolleswood Natural Area Fund
- Gertrude Brown Memorial Fund
- Mr. and Mrs. Nelson L. Buck Arboretum Fund
- Arboretum Edgerton Memorial Fund
- Lillian Dauby Gries '27 Conifer Maintenance Fund
- Marjorie Holloway Endowed Memorial Garden
- Sylvia Blake Harrison Memorial Garden Maintenance Fund
- Parthenia Grier Johnson Holly Collection Garden Fund
- Daniel Klagsbrun '86 Memorial Garden Endowment Fund
- Mamacoke Island Endowed Fund
- Betty Walther Memorial Arboretum Fund
- Ann C. Wheeler '34 Endowed Arboretum Fund



ABOVE: NEW GROUNDSPERSON
CHARLES COCHRAN '10

RIGHT: STAFF AND SUMMER
STUDENTS, FROM LEFT: ANNE
KEARNEY '12, CHARLES COCHRAN
'10, BRYAN GOULET, JUNHEE LEE '14,
ANDREW HARRINGTON '12, RICHARD
WORSMAN '12 AND LEIGH KNUTTTEL



Staff

CHARLES COCHRAN '10 joined the Arboretum staff as a grounds person in August 2011, replacing Charles Chip McIlwain, who had resigned in June. Charles Cochran had worked with the Arboretum horticultural staff as a student during his sophomore through senior years, and then came back last summer in a temporary capacity. Also in 2011, Bryan Goulet was promoted to senior grounds person. Bryan had transferred to the Arboretum from the Physical Plant Grounds Crew in 2005.

Continuing members of the Arboretum staff this year were Glenn Dreyer, Charles & Sarah P. Becker '27 Director; Kathy Dame, assistant director for public programs; Mary Villa, curator and information manager (part time); Leigh Knuttel, horticulturist; Bryan Goulet, senior grounds person; and Elene Anthopolos, department assistant (part time).

Students

WITH ONLY five full-time and two part-time staff members, the Arboretum relies heavily on student assistants both during the school year and in the summer. While most are engaged in the landscape maintenance operation, others support the educational and curatorial efforts.

Summer 2011

Charles Cochran '10
Zurab Grdzlishvili '12
Sarah Rhodes '12
Dvora Walker '11

Fall 2011

Steven Burnham '12
Nels Christensen '14
Nevena Deligineva '13
Courtney Dwyer '12
Grace Glynn '14
Benjamin Hopkins '13
Duncheng Jiang '14
Anne Kearney '12
Robert Landry '13
Zhibang Liu '14
Eleanor Schmitt '12
Qimeng Zhao '13

Spring 2012

Steven Burnham '12
Nels Christensen '14
Paige Cowie '12
Alanna Fusco '13
Christopher Giri '15
Grace Glynn '14
Anne Kearney '12
Andrew Keen '15
Eleanor Schmitt '12
Richard Worsman '12

Volunteers

THROUGHOUT the past year 35 volunteers donated their time to the Arboretum. They provided a significant backup for the Arboretum staff by leading tours, planning and teaching children and adult programs, working at plant sales and conferences, and assisting with landscape maintenance. Volunteers socialize with each other and our

staff at a spring barbecue and a fall pot-luck dinner, both at Buck Lodge. Some of our volunteers have served with us for nearly 20 years. We sincerely thank each of the following individuals for making time to help the Arboretum.

- | | | |
|-----------------------|---------------------------|-------------------|
| Savas Anthopolos | Kenneth Graham | Kerri Ann Neville |
| Robert Askins | Ulysses Hammond | Becky Nortz |
| Mark Braunstein | Ashley Hanson '82 | Karen O'Brien |
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TOP: SUMMER STUDENT WORKER ANNE KEARNEY '12

BOTTOM: CHILDREN'S EDUCATION COMMITTEE VOLUNTEERS, FROM LEFT: KIM DONAHUE, DICK CONWAY, KERRY ANN NEVILLE, ASHLEY HANSON, KATHY DAME, CAROLINE DRISCOLL AND ROBERTA BROUWER

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