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Arboretum Annual Report 2013-2014

Glenn Dreyer
Connecticut College

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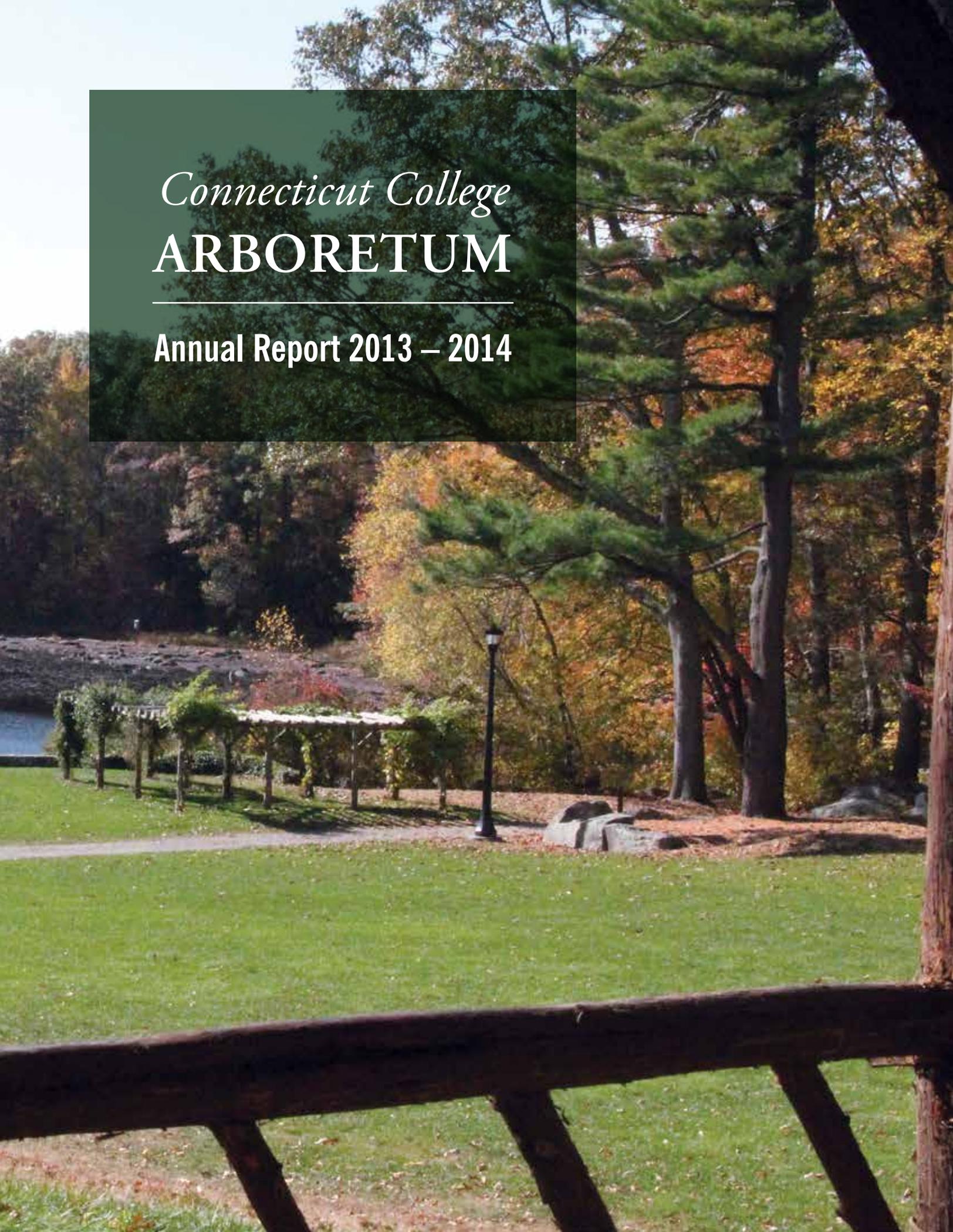
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Connecticut College
ARBORETUM

Annual Report 2013 – 2014

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.



Photo by Sorrentino

FROM THE DIRECTOR



I WILL PROBABLY REMEMBER THE 2013-14 ACADEMIC YEAR as a whirl of personnel and personal transitions for the Arboretum staff. Sadly, we lost a longtime colleague in Craig Vine who served for 36 years as our Horticultural Assistant, and had been retired for 10 years. Another milestone for our small staff was the retirement of Assistant Director Kathy Dame '90, the leader of our public education and volunteer programs for nearly 20 years. And Charles Cochran '11, with us only two years, moved on to new challenges as well. While honoring and appreciating all of their contributions and commitments to the Arboretum, such changes do allow for the incorporation of new ideas, projects and programs, and for energized newcomers to reinvigorate the department.

Some of that invigoration began this spring with Mary Villa's half-time position as Curator/Information Manager being increased to full time. This will allow Mary to become more involved in our educational offerings and also allow for more students to work with her as interns or volunteers, giving them a unique experience while helping the Arboretum. Our new Administrative Assistant started in June and began enlivening our social media presence by feeding our Facebook page and initiating our Twitter account. These communication tools were immediately put to work promoting each of our public weekly docent led tours of the plant collections, with goal of increasing participation. When we welcome a new Assistant Director for Public Programs this fall, the innovations will surely continue.

A new generation of faculty members is also finding different ways to use the Arboretum, with a lot of activity from the Anthropology Department this year. Please read on to get more details on the year's activities and the people who make this such a fascinating place to work and visit.

Glenn Dreyer
Charles and Sarah P. Becker '27 Director



Glenn Dreyer leading the annual wildflower walk last May.

TEACHING AND RESEARCH

MANY COLLEGE COURSES UTILIZE THE ARBORETUM during each semester, and it is always exciting when faculty find new opportunities for their teaching and research. This spring Anthropology Professor Anthony Graesch introduced a new course called “Ruins in the Forest: Applying Field Methods in an Archeology of the Arboretum” (Anthro. 406). In this intensive field course his students explored the archaeological resources distributed across Arboretum’s Hemptead, Avery and Matthies Tracts. On those 65 acres between the Thames River and Route 32, the class applied basic and advanced surface and subsurface investigative techniques in the documentation, analysis, and interpretation of archaeological features spanning the seventeenth, eighteenth, and nineteenth centuries. Future classes will base their semester’s work on other areas of the campus/arboretum’s more than 700 acres.



Professor Graesch and Ethnobotany Professor Manuel Lizarralde team taught “Experimental Archeology” (Anthro. 396) in which the class collected Arrowwood (*Viburnum dentatum*) shrub stems in the Arboretum, fashioned them into arrow shafts of varying lengths and test shot them to measure their kinetic force and target hitting accuracy.

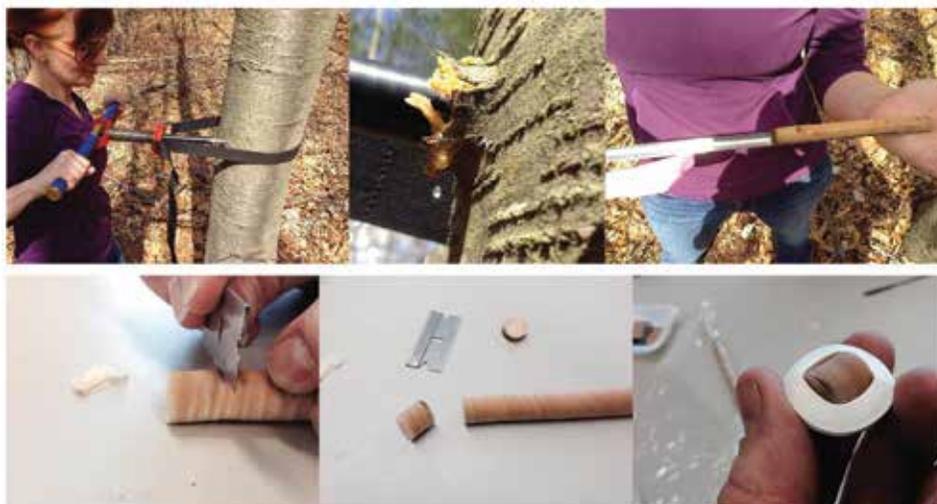
Professor Lizarralde also brought students from his “Anthropology of South America” (Anthro. 234) into the Outdoor Theater for them to try using indigenous hunting tools including the atlatl (spear thrower) and bow and arrow.

Another new use, albeit a single field trip rather than a course, was by the Classics Department. Our 2013 summer curatorial intern Jo-ann Crystoff, noting the Latin and Greek basis of plant scientific names, developed and offered faculty and students in that department a well-received tour of the Campus Plant Collection that highlighted the meaning of each plant’s technical binomial.

Botany Professor Rachel Spicer offered a new take on a core plant science course in her “Environmental Plant Physiology” (Bot. 320) in which she specially emphasized hands-on techniques and experiments. Professor Spicer collected various trees, shrubs and vines for in-class exercises measuring photosynthesis, hydraulic conductivity, and respiration in woody stems. She also took students tree coring to look at growth rates and annual ring formation in the White Pine (*Pinus strobus*) stand behind Buck Lodge. While some students chose to set up greenhouse experiments, four students in the class conducted their independent research project in the Arboretum, each of which was summarized in a scientific paper-format

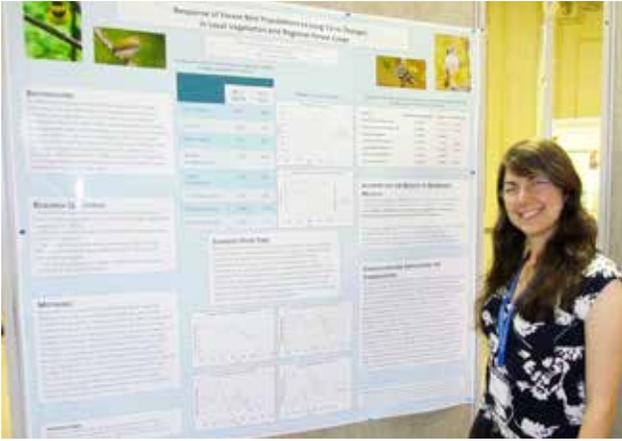
manuscript and a 15 minute oral presentation. Projects included a test of whether lenticels serve to aerate the stem in Black Birch (*Betula lenta*), and studies of xylem sap flow in Sugar Maple (*Acer saccharum*), hydraulic conductivity and embolism formation in Bittersweet (*Celastrus orbiculatus*), and the physiological effects of woolly adelgid infestation in Hemlock (*Tsuga canadensis*).

In the Introduction to Geographic Information Systems (GIS) course (Environmental Studies 312) taught by Senior Lecturer Beverly Chomiak, two students did final projects



Top: Prof. Graesch (center) explained mapping techniques to students documenting cultural artifacts, like stone walls, in the Arboretum.

Bottom: Prof. Spicer demonstrating the process of removing and preparing a tree core.



Mary Buchanan '14 with her poster describing her Honors Thesis work with Arboretum long term breeding bird and vegetation data.

that utilized the existing Arboretum geospatial dataset and added new information to the growing digital library. Colin Lang '14 located potential areas to create early successional vegetation habitat suitable for the New England Cottontail, which is currently a candidate for listing as federally endangered. Victoria Stewart used Arboretum curatorial maps that locate individual living and deceased trees to search for correlations between tree death and environmental factors such as proximity to roads, paths and construction projects. In the process she helped the Arboretum by adding many trees from the most recent Campus Plant Collection inventory to GIS maps.

After participating in Arboretum breeding bird censuses during the summers of 2012 and 2014, biology major Mary Buchanan '14 spent the year working with Professors Askins and Jones analyzing Arboretum long term vegetation and bird data from the early 1950s to the 2010s. She was particularly interested in how changes in the structure and floristic composition of the vegetation, and of forest cover changes in the region, related to changes in bird populations. Her honor's thesis was titled "Responses of Forest Bird Populations to Long-term Changes in Local Vegetation and Regional Forest Cover." Some of her results indicate

adverse impacts on birds by the loss of hemlock due to woolly adelgid infestations, and that floristic diversity may be critical for determining quality of habitat for birds. Mary presented her results in a poster at the joint meeting of the Wilson Ornithological Society and the Association of Field Ornithologists on May 31, 2014 in Newport, Rhode Island.

Yale School of Forestry & Environmental Studies graduate student Jeffrey Smith utilized the Arboretum's planted meadow north of Benham Avenue as one of his sites in a statewide research project. Waist high cages were placed in a number of locations in the meadow early in the growing season and surveyed throughout the year for arthropods. Ultimately Jeffrey's lab is trying to determine the effects of development that surrounds grasslands and meadows on insect and spider populations.

Arboretum Director Glenn Dreyer, Botany Professor Chad Jones and a volunteer committee of 10 other botanists produced the first new checklist of Connecticut native and naturalized vascular plants published in 35 years. Utilizing Arthur Haines' 2011 "Flora Nova Angliae" and various other sources, they organized and compiled the 240 page, spiral bound book. It offers a quick reference on the currently accepted scientific names and plant family relationships of more than 2,800 plants, many of which have changed over the past few decades thanks to advances in genetics and molecular science that have clarified the evolutionary relationships upon which biological nomenclature is based.

In August 2013 the Arboretum began work on a contract with the Connecticut Department of Energy and Environmental Protection (DEEP) to produce recommendations and assessments for the development of a management plan for the Barn Island Wildlife Management Area in Stonington, Connecticut. Director Dreyer assembled a team that included Professor Emeritus R. Scott Warren, Professor Chad Jones and Ronald Rozsa, a retired ecologist from DEEP's Office of Long Island Sound Programs. The first phase of gathering basic information about the site and its history was completed by summer 2014, when two students, Mary Buchanan '14 and Jessica Wright '16 began working as research assistance to sample upland vegetation and collect other information on site. The final report is due at the end of 2014.



Prof. Lizarralde's ethnobotany class pretends to key out a large mushroom found in the Arboretum.

PUBLIC EDUCATION AND OUTREACH



Wreath making workshop is always first weekend in December.

FREE EDUCATION PROGRAMS FOR YOUNG PEOPLE were once again offered by Assistant Director Kathy Dame and an enthusiastic group of volunteers on the Arboretum's Children's Nature Education Committee during fall 2013 and early winter 2014. There were a total of seven programs operated under the title "Let's Explore! Nature Activities for Kids..." on topics including turtles, weather, felting, rainbows, and the always popular Pumpkin Circle storytelling event at Halloween. Children's programs

were not offered during the spring due to Ms. Dame being on leave.

Adult education programming for the year included a workshop on the meaning of Latin plant names, tree identification, spring shrub and tree pruning, a geology walk in the Arboretum ravine, a map and compass workshop, an edible seaweed workshop and these perennial favorites: holiday wreath making, a fall foliage walk and the May wildflower walk in the Edgerton and Stengel Garden. Offerings during spring were limited due to staffing shortages.

One highlight of the year was the 11th Annual SALT (Smaller American Lawns Today) Conference titled "The

Joy of Creating a Beautiful and Bountiful Garden."

The November 2013 iteration was the best attended in years, and featured nationally known design consultant, photographer and author Rick Darke, along with Bill Duesing of the Connecticut chapter of the Northeast Organic Farming Association, garden designer Duncan Brine and horticulturist Cathy Beauregard. The year ended with an engaging lecture about the cultural ecology of Native Americans in Southern New England by Kevin



Geophysics Professor Doug Thompson led a walk on Mamacoke Island for environmental studies students.

McBride of the UConn Anthropology Department and the Mashantucket-Pequot Museum.

The Arboretum's only regularly occurring programming for landscape professionals is the two day ecological design symposium which has been presented both at Connecticut College and at the University of Pennsylvania's Morris Arboretum every January for the past 25 years. The 2014 theme was "Assessing and Reassessing Ecological Design." Featured speakers included the Darrel Morrison FASLA, the "godfather" of the native design movement; Travis Beck, Director of Horticulture at the Mt. Cuba Center; Nigel Dunnett, Professor of Planting Design at the University of Sheffield, England and Rebecca McMackin, Director of Horticulture at Brooklyn Bridge Park. The 2014 program, with 130 participants, was the best attended of any in this long running series.

Less formal educational offerings from the Arboretum included our volunteer docent-led tour program, which provides free guided walks of the Arboretum's three plant collections every weekend from May through October. In an effort to encourage greater public participation, the schedule was shifted starting in May 2014 to Saturdays at 10 a.m. from the traditional Sunday at 2 p.m. Preliminary results indicated that this may increase participation.

There are also occasional special tours for various groups. In early June about 90 members of the Connecticut Master Gardeners Association visited the campus and took part in three staff and docent-led tour sessions which brought groups of about 20 people to the Native Plant Collection, the Campus Landscape and the Caroline Black Garden.

In May, Professor Lizarralde gave a three-hour tour for 20 fourth grade students with teachers Hugh Birdsall and Susan Hafler from New London's Multicultural Magnet School. The theme was ethnobotany – specifically how local Native Americans used ten different native trees for making tools, weapons, baskets, foods and medicines.

Being short staffed half the year also meant that the annual photography contest "Capturing the Beauty of Nature" did not accept submissions. However, thanks to the generous photographers who over the last 14 years donated prints that they submitted to the contest, a "staff favorites" exhibit was mounted in June to coincide with Members and Friends night. Nearly 100 select images from all over the Arboretum were mounted in thematic groups along the walls of Olin Science Center.

In June, the Arboretum hosted the second "Music in the Meadow" concert in the Outdoor Theater. The show was produced by Ben Parent, musician and college graphics designer, and featured local artists The Meadows Brothers, The Three Pack and The River Gods. Approximately 300 people enjoyed an evening of roots music under the stars.



Top: Professor Lizarralde with students from the New London Multicultural Magnet School

Bottom: The River Gods on stage in the Outdoor Theatre during the second annual "Music in the Meadow" concert.



The Niederman Garden directly south of Crozier Williams College Center on April 16 with daffodils blooming through a late snow.

AS OF JUNE 2014 THE ARBORETUM COLLECTIONS totaled 6,118 accessioned living plants representing 745 different taxa. The combined living collections included 2,505 trees, 3,580 shrubs, and 33 vines.

CAMPUS LANDSCAPE

Although the Arboretum is not responsible for landscape maintenance of the main campus and athletic facilities, we do have an active role in the design, protection and interpretation of this 120 acre area. The small number of talented people on the Facilities Management Grounds Staff do a great job looking after a large area of intensely used landscape and keeping it beautiful. Those individuals are listed inside the back cover of this report, along with other staff members associated with the Arboretum.

During the summer of 2013, Curator Mary Villa was ably assisted by Jo-ann Crystoff of Mystic, Connecticut with the inventory of trees in the Campus Landscape Collection and with digital mapping using Arc-GIS. The inventory process

was modernized this year with the use of a Nautiz X7 handheld computer and GreVid and Garden Notepad software, which allows plant records to be viewed and updated in the field. In addition, volunteer Allen Gauthier assisted Curator Villa in a comprehensive study of all the oaks in our major collections verify that all specimens were correctly identified.

Mary Villa, who has a background in landscape design, also created a plan for the replanting of the teaching gardens surrounding the New London Hall Greenhouse, which was completely removed during the recent building renovations. Plantings were installed in beds north of the west greenhouse wing and beds along New London Hall and the potting room.

There were two additional garden projects on campus this year. First was new landscaping around the completely restored Steel House at the south end of campus. This small building now houses the College's Office of Sustainability, and one of the planting features was a "no-mow" lawn. The second new installation was a diverse planting of shrubs at the main (west) entrance of the F.W. Olin Science Center.

NATIVE PLANT COLLECTION AND NATURAL AREA

In August two rustic, red cedar log gazebos were constructed in the Native Plant Collection. One is located in the newly renovated Rose Family area south of the Laurel Walk and includes a plaque acknowledging the generosity of Linda Abel Fosseen '69, who supported the renovation of the collection and created an endowment for the nearby Wildflower Garden. The other, undedicated gazebo is located at the top of a slope overlooking the Outdoor Theater and Pond. Both were designed and constructed by Rustic Garden Structures of Bynum, North Carolina.

In spring 2014 the Arboretum received a collection of 45 native Willows (*Salix*) in 16 different taxa from UConn Plant Science Professor Julia Kuzovkina. Prof. Kuzovkina propagated the Willows from wild plants across Connecticut and the Northeast for her research, and shared extras with the Arboretum. She also donated two kinds of native Poplars (*Populus*) and had previously examined the willows already in the collection and helped to identify them correctly. The small, donated plants were placed in the newly renovated Arboretum nursery to grow on to larger sizes.

The boardwalk connecting the Edgerton and Stengel Wildflower Garden with the Gries Conifer Collection was smashed by a large fallen tree trunk over the Thanksgiving break in 2013. Arboretum staff salvaged most of the deck planks and replaced the damaged carrying beams by mid-winter.

After three years of being used as a road and sewer project construction staging site, the Arboretum field south of Benham Avenue and west of the railroad tracks was reclaimed and restored. Approximately one acre of the disturbed field was sown with a Long Island ecotype of Little Bluestem grass (*Schizachyrium scoparius*) from a local Connecticut seed company.

NEW PLANTINGS BY COLLECTION

*New taxa in collection

CAMPUS LANDSCAPE

Aesculus x carnea – (1) Red-flowered Horsechestnut

Heptacodium miconioides – (1) Seven-son Flower

Prunus americana – (1) American Red Plum

**Pseudolarix amabilis* – (1) Golden Larch

ENTRANCE GARDEN AT OLIN SCIENCE CENTER:

**Hamamelis virginiana* 'Harvest Moon' – (2) Harvest Moon Witchhazel



Great Trillium (Trillium grandiflorum) and Large-flowered Bellwort (Uvularia grandiflora) in the Edgerton and Stengel Wildflower Garden.

Ilex crenata 'Compacta' – (8) Compact Japanese Holly

Itea virginica 'Henry's Garnet' – (10) Henry's Garnet Virginia Sweetspire

**Juniperus communis* 'Amidak' – (6) Blueberry Delight™

Juniper

Leucothoe axillaris – (24) Coast Leucothoe

Spiraea japonica 'Little Princess' – (14) Little Princess Spirea

**Viburnum dentatum* 'Christom' – (5) Blue Muffin®

Arrowwood

STEEL HOUSE PLANTINGS:

Acer saccharum 'Green Mountain' – (1) Green Mountain Sugar Maple

**Buxus microphylla* 'Tide Hill' – (62) Tide Hill Littleleaf Box

Ilex glabra 'Densa' – (11) Dwarf Inkberry

CAROLINE BLACK GARDEN

**Pseudolarix amabilis* – (1) Golden Larch

NATIVE PLANT COLLECTION

**Alnus incana ssp. rugosa* – (2) Speckled Alder

**Aronia melanocarpa* 'Grandiflora' – (3) Black Chokeberry

**Benthamidia florida* 'Cherokee Princess' – (1) Cherokee Princess Flowering Dogwood

Ilex mucronata – (3) Mountain Holly

Kalmia latifolia 'Elf' – (2) Elf Mountain Laurel

Kalmia latifolia 'Nipmuck' – (2) Nipmuck Mountain Laurel

Kalmia latifolia 'Quinnipiac' – (2) Quinnipiac Mountain Laurel



The board walk between the wildflower and conifer collections was damaged by a large falling tree.

NEW ACCESSIONS (existing plants) *Campus Landscape*

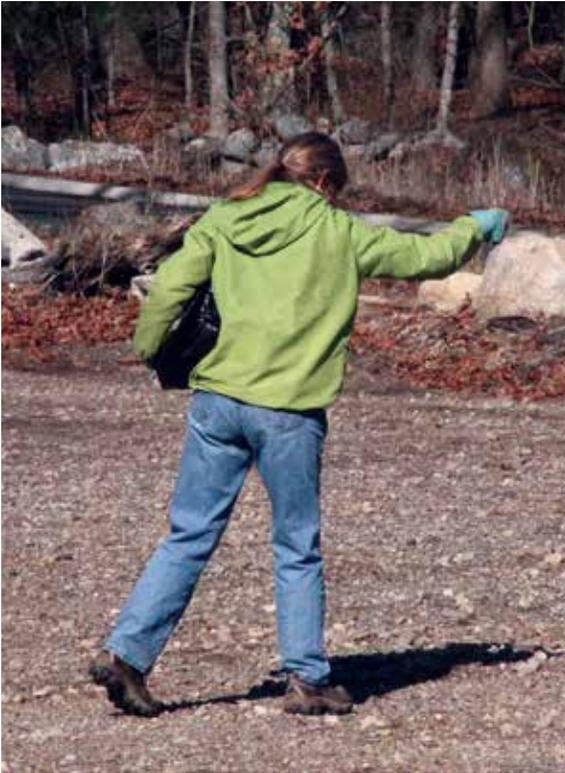
- Abies concolor* – White Fir
- Acer palmatum* ‘Bloodgood’ – Japanese Maple
- Acer palmatum* var. *dissectum* ‘Crimson Queen’ – Crimson Queen Japanese Maple
- Betula alleghaniensis* – Yellow Birch
- Catalpa bignonioides* – Southern Catalpa
- Chamaecyparis obtusa* ‘Nana’ – Dwarf Hinoki Falsecypress
- Fagus sylvatica* f. *purpurea* – Copper Beech
- Fraxinus americana* – White Ash
- Juglans nigra* – Black Walnut
- Picea pungens* – Colorado Spruce
- Populus grandidentata* – Bigtooth Aspen
- Prunus avium* – Sweet Cherry
- Quercus velutina* – Black Oak
- Quercus rubra* – Red Oak
- Styrax japonicus* – Japanese Snowbell
- Tetradium danielli* – Korean Tetradium
- Thuja occidentalis* – Eastern Arborvitae

NEW ACCESSIONS (existing plants) *Native Plant Collection:*

- Quercus bicolor* – Swamp White Oak
- Quercus alba* – White Oak
- Quercus velutina* – Black Oak

ACCESSIONS BY COLLECTIONS:

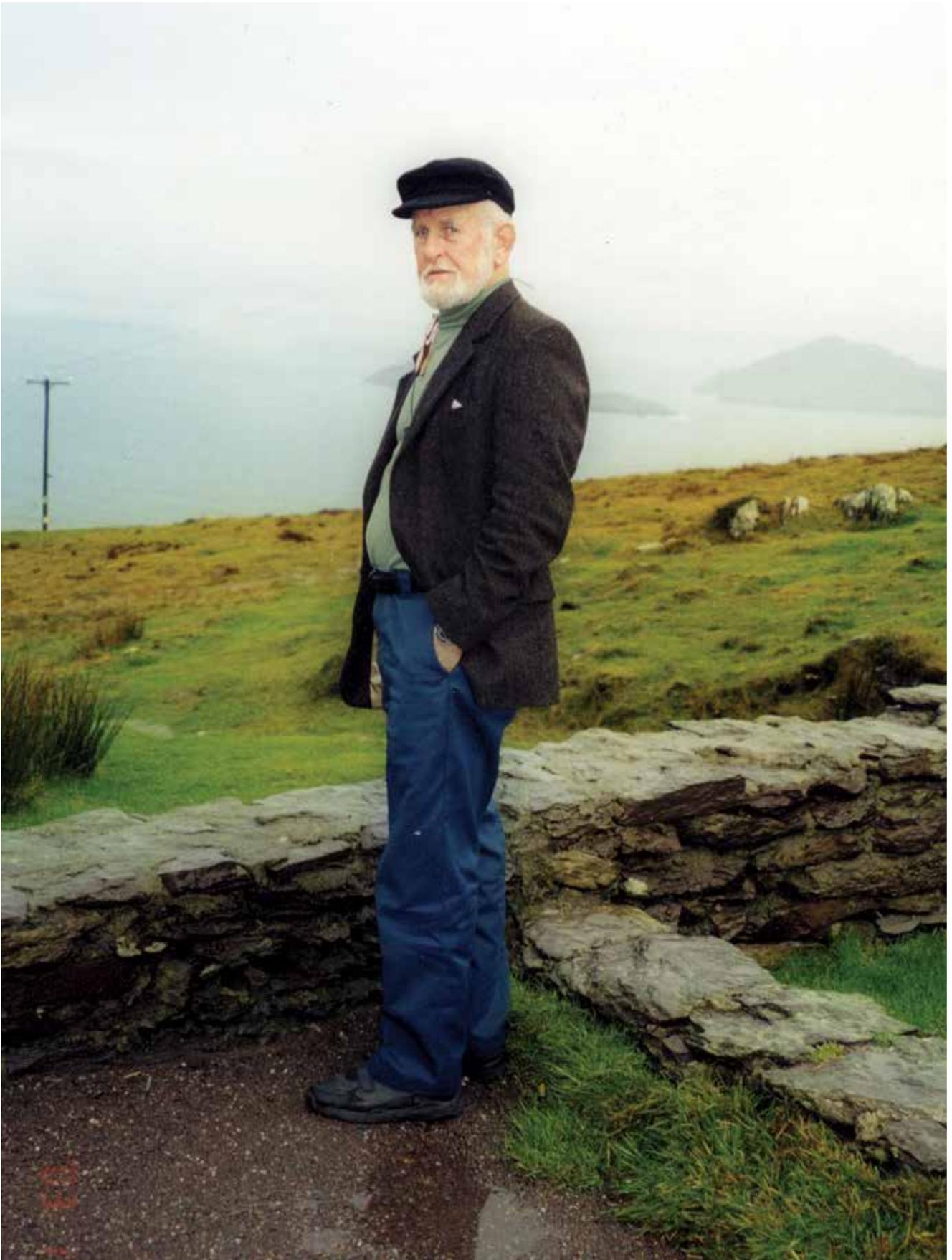
Collection	Trees	Shrubs	Vines	Total Taxa
Native Plant	1021	1255	22	295
Campus Landscape	1312	1880	7	420
Caroline Black Garden	172	445	4	213



Clockwise: Horticulturist Leigh Knuttel hand broadcasting Little Bluestem seed on the field south of Benham Avenue.

New red cedar gazebo in the Rose Family area of the Native Plant Collection.

Kraig Clark cultivated soil in the perennial beds along New London Hall and the Greenhouse, which had been severely compacted during the recent building renovation.



The late Craig Owen Vine, Horticultural Assistant shown on a vacation in Ireland in 2003.

AFTER TEN YEARS AS THE ARBORETUM'S HALF-TIME CURATOR

and Information Manager, and nearly two years as the department's Administrative Assistant, **Mary Villa** became the Arboretum's first full time Curator. This promotion will allow her to get much more involved in expanding the use of our plant collections in public and college educational programs in all formats including the classroom, the field and the internet.



Christine Donovan, Administrative Assistant

Christine Donovan of Waterford, Conn. arrived at the end of June 2014 to become the Arboretum Administrative Assistant, a half-time position. She earned a bachelor's degree in English from Le Moyne College and a master's degree in Multimedia and Print Journalism from Emerson College, and has previous experience in online retail communication, marketing and risk management. In addition to processing invoices, budget tracking and general clerical duties, Christine has enlivened the Arboretum's website (<http://arboretum.conncoll.edu>) and social media presence, and has contributed her considerable design skills to material promoting our education programs.

Kraig Clark of Quaker Hill, Conn. joined the Arboretum staff in November 2013 as a Groundsperson. Prior to that, he worked in the College's Facilities Management - Grounds section as a crew leader. Kraig essentially grew up in his family's residential and commercial lawn care and maintenance business, is a skilled equipment operator, and is enjoying learning more about the plant world.



Kraig Clark, Arboretum Groundsperson

Retired Arboretum Horticultural Assistant **Craig Owen Vine** died on May 23, 2014 at the age of 77. Craig worked with the Arboretum from 1968 until 2004, and while earning his living doing landscape maintenance, his true passions were drawing, painting and singing. Craig will be fondly remembered by generations of Arboretum staff and student workers for his sense of humor and especially for his love of terrible puns. After retiring he was able to travel to Ireland multiple times, and closer to home, he could sometimes be found singing with local chorus groups, and in a local Irish pub.

Kathy Dame '90, Arboretum Assistant Director for Public Programs took personal leave in early December 2013 and retired from the College in June 2014. Having started in a secretarial position shared by the Arboretum and Botany Departments in 1993, she shifted to fulltime with the Arboretum in 1995 when the offices moved to the new F.W. Olin Science Center. Later she became the first Education Coordinator and eventually Assistant Director. Among her many accomplishments were the "Capturing the Beauty of Nature" photo contest, the "Let's Explore! Nature Activities for Kids..." programs and the Docent program that trains volunteers from the local community to lead tours of the three major plant collections.

Charles Cochran '10 left his Arboretum Groundsperson position in August 2013. Charles had spent most of his student years working with the Arboretum grounds staff and then was with the Arboretum fulltime for the past two years.



The Arboretum Staff, summer 2014. Back row (l-r) Bryan Goulet, Kraig Clark, Christine Donovan, Mary Villa, Glenn Dreyer (with Forest). Front row (l-r) A.J. Boyce '17, Leigh Knuttel, Caitlin Persa '16. Not pictured Avery Thomas '15 and Kevin Irakoze '16

Student workers, many participating in the College's Work Study program as part of their financial aid package, are a vital ingredient for Arboretum landscape, administration and curatorial operations. During the 2014-15 academic year, the following students were members of the Arboretum team:

STUDENTS, SUMMER 2013

Anne Kearney '12
 Chloe Jones '15
 Kevin Irakoze '16
 Jo-ann Crystoff – Curatorial Intern

STUDENTS, FALL 2013

Avery Thomas '15
 Caitlin Persa '16
 Caroline Lucas '17
 Christopher Giri '15
 Colin Munson '16
 Connor Grove '17
 George Scarles '15
 Grace Glynn '14
 Kevin Irakoze '16
 Nadiya Hafizova '15
 Nels Christensen '14
 Nicole Hogan '16

Mimi Payne '17
 Tandy Bryant '14
 Timothy Hartshorn '14
 Will Fetchko '15

STUDENTS, SPRING 2014

Antonino Boornazian '15
 Caitlin Persa '16
 Christopher Burnham '17
 Christopher Giri '15
 Colin Munson '16
 Elias Aquino '16
 Gabriel Ryan '17
 Grace Glynn '14
 John Daniels '14
 Kevin Irakoze '16
 Kiersten Anderson '17
 Nadiya Hafizova '15
 Nels Christensen '14
 Nicole Hogan '16
 Thomas Redstone '15
 Timothy Hartshorn '14
 Victoria Stewart '15
 Will Fetchko '15

VOLUNTEERS

People who participate in tours of the Arboretum often marvel at what our small staff accomplishes with the large area to manage and the varied educational offerings. Much of what gets done is only possible thanks to a dedicated group of volunteers who donate their time and expertise in many ways. The docent program is key to hosting and educating visitors at our facilities and is only possible during convenient weekend hours thanks to volunteers. Many of our education programs for children and adults are also conducted by dedicated volunteers who truly enjoy sharing their enthusiasm for the natural world with others. The staff and the entire College express sincere thanks to the following people providing outstanding service to the Arboretum this year:

Allen Gauthier
Arlene Raymond
Ashley Hanson
Beverly Chomiak
Caroline Driscoll
Charles Tillery
Jennifer Pagach
Jim Luce
Joan Flynn
Jo-Ann Crystoff
John Cox
Kathryn Williams
Ken Graham
Kevin McBride
Kim Donahue
Linda Boodman
Lydia Pan
Manuel Lizarralde
Mike Wuenscher
Pam Wright
Rebecca Nortz
Richard Conway
Robert Sherman
Roberta Brouwer
Sally Taylor
Sandra Morse
Susan Munger
Tracy Burrell
Trish Helm

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
Doris Edgerton Abel Memorial Edgerton
Wildflower Garden Fund
Lillian Niederman Memorial Garden Fund

MEMBERS

The Arboretum gratefully acknowledges gifts from the following individuals and organization who contributed this year either directly, or through the establishment of endowment funds which provide support every year. We strive to accurately maintain our records and appreciate receiving corrections.

PATRONS

Johnson, Michael & Ann
Morton, Joanne McKean
Sylvan Nursery, Inc.
Urban Forestry Organization
Van Sloun Foundation
Fosseen, John & Linda Abel



Assistant Director Kathy Dame '90 (center) with (l-r) long time volunteers Dick Conway, Caroline Driscoll, Roberta Brouwer and Allen Gauthier

SPONSORS

American Rhododendron Society
 Arkava, Harold
 Dearborn, Deborah
 Dutcher, Craig C.
 Dreyer, Glenn & Wendy
 Enders, Anthony & Elizabeth
 McGeorge, William
 Moulton, David
 Parnall, Ruth & Walker, Donald L.
 Record, Stephen & Mary Sue
 Reynolds, Elizabeth F.
 Rotch, Susan
 Ryder, Thomas S
 Taylor, Sally
 Tuttle, Hazel F.

SUPPORTING, FAMILIES, INDIVIDUALS AND ORGANIZATIONS

Allen, Renee Mercaldo
 Anderson, Nancy
 Ansel, Carol M.
 Askins, Robert
 Augustiny, Mary E.
 Babbitt, Eleanor C.
 Barnes, Phillip
 Baudro, Mary C.
 Bischoff, Terry
 Blair, Diana

Boodman, Linda R.
 Bowen, Leila K
 Branford Garden Club, Inc.
 Brensilver, Howard
 Calabretta, Claire
 Clark, Joseph
 Clayton, Christina
 Copp, Eugenie
 Cox, John & Katha
 Cressman, Felise T
 Crosby, Howard & Phyllis
 Crosby, Rebecca T.
 Davies, Judith
 DeLaura, L. Joyce
 Donovan, Deborah J.
 Doyle, Pauline M.
 Driscoll, Caroline K.
 Duck River Garden Club of Old Lyme
 Eastwood, Marylin
 Flynn, Ken & Joan
 Gauthier, Allen R.
 Glastonbury Garden Club
 Hafner, Prescott W
 Hamsher, Gail
 Harvey, Ann Tracy
 Hayes, Christie M.
 Henderson, Adelaide

Hernandez, Robert W
Homeier, Jean Gries
Hrusa, Dennis
Isbister, Anne H.
Jerbert, Jean
Johnson, Kate
Kaczorowski, Margaret Steele
Kelly, Shannon
Kovach, Eva
Kraynak, Susan L.
Krusen, Gordon
Lambert, Kristin & Brian
Lantz, Paul & Kathy
Legg, Bonnie
Leonard, Wardwell & Viola
Lewis, Barbara
Lindberg, Amanda A.
Longwood Gardens Library
Malootian, Markay
Manning, Gloria & Ronald
Marston, William
Masi, Nanette B.
McCabe, Maureen & Andersen, Jeffrey
McCallum, Candice
McGuire, James & Ellen
Moore, Christina
Morse, Sandra
Myers, Sally & Bob
Nalwalk, Anne H.
Nickerson, Judith W.
North Stonington Garden Club
Noyes Family
Pan, Lydia C.
Penniman, Chris
Pinson, Betty A.
Ricci, Richard C. & Fawn Walker
Richards, Susan G.
Robinson, James T.
Roper, Peter & Terri
Schlesinger, Gabriella
Solomon, Janis
Stutts, Susanne M.
Susan H. Munger
Sutphen, Eunice
Thames River Garden Club
Twigg, Martha B.
Van Dine, Catherine & Pieter
Walsh, Louise S.
Walther, David C.
West Hartford Garden Club
Westport Garden Club
Wetmore, Eleanor L.
Williams, Barbara P.
Williams, John & Kathryn
Wolf, Edward



Nels Christiansen'14, dedicated student employee, with a rather large mushroom.

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