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2005

### Arboretum Annual Report, 2005

Connecticut College

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**connecticut college arboretum  
annual report 2005**

CONNECTICUT COLLEGE



# arboretum members report 2005

## 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 for the College and the citizens of southeastern Connecticut.

## public education

To provide programs and publications about conservation, horticulture, gardening, botany and natural history, which enhances understanding of the natural world and fosters an understanding of the Arboretum's mission.

# connecticut college

Barbara Shattuck Kohn '72 *Chair, Board of Trustees*

Norman Fainstein, *President*

Francis Hoffmann, *Dean of Faculty*

## arboretum staff

Glenn D. Dreyer MA '83, *Director*

Katherine T. Dame '90, *Assistant Director for Public Programs*

Anne Davis, *Staff Assistant*

Bryan L. Goulet, *Groundsperson*

Charles McIlwain III, *Senior Groundsperson*

Jeffrey D. Smith, *Horticulturist*

Mary Villa, *Curator/Information Manager*

## associates

Robert A. Askins, *Research Associate*

Phillip T. Barnes, *Research Associate*

John W. Deering, *Earth Management Consultant*

Caroline Driscoll '84, *Hort Helper Coordinator*

Paul E. Fell, *Research Associate*

Richard H. Goodwin, *Technical Advisor*

Pamela G. Hine MA '84, *Research Associate*

Harold D. Juli, *Research Associate*

Manuel Lizarralde, *Research Associate*

Stephen H. Loomis, *Research Associate*

T. Page Owen, *Research Associate*

Sally L. Taylor, *Education Consultant*

R. Scott Warren, *Research Associate*

## campus grounds staff

James Luce, *Grounds Supervisor*

Lee Bowker, *Groundsperson*

Mike Campagna, *Groundsperson*

Kraig Clark, *Groundsperson*

John Driscoll, *Groundsperson*

Lori Kessel, *Groundsperson*

Lynn Manza, *Groundsperson*

Brian Marks, *Groundsperson*

Joseph Serwinski, *Groundskeeper*

Robert Stammel, *Senior Groundskeeper*

George Yuhas, *Head Mechanic*

# connecticut college arboretum annual report 2005



*Reflection by Hannah Cushman*

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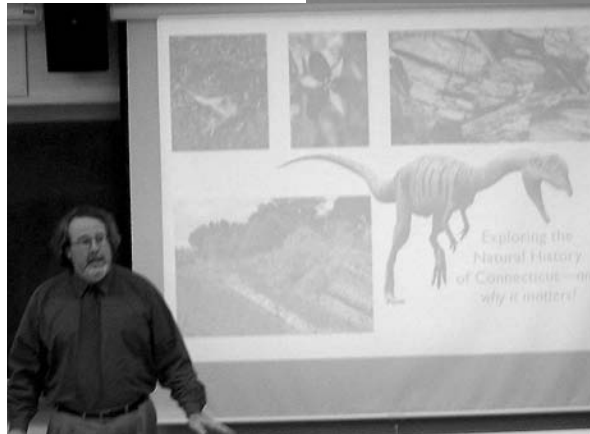
**the arboretum** offered a wealth of programs to people of all ages during 2005. Our winter programs are designed to foster appreciation of the natural world on the “off season.” A good example is campus grounds supervisor Jim Luce’s workshop on identifying trees with a twig, and his ever popular pruning workshop. Director Glenn Dreyer’s lecture on invasive exotic plants got participants ready to hold the line against these fast growing threats to native plants. Assistant Director Kathy Dame chose a cold month to discuss *Boiling Point*, a book on global warming by Rob Gelbspan. Louis Sorentino presented a fascinating lecture about a mysterious millstone found at Devil’s Hopyard State Park. As the weather warmed, the outdoor activities started with a guided walk through the Arbo ravine with environmental studies lecturer and geologist Beverly Chomiak. Author and publisher Brendan Hanrahan enthusiastically portrayed Connecticut’s natural history in a lecture based on a new book series, *Great Day Trips*. Participants got their hands dirty with Laura Eisner’s Portable Gardens workshop, and worked up a sweat with librarian and yoga teacher Ashley Hanson’s four sessions of “Yoga in the Arbo.”

The transition from spring to summer was made more enjoyable with guided walks in the Arboretum’s Edgerton and Stengel Wildflower Garden in early May and a bird and butterfly walk with naturalist David Bingham at the Walden Preserve, Salem.

Arboretum Members’ and Friends’ Night is always a special occasion where old friends reunite and new acquaintances are made. Guest speaker, Janet Marinelli, director of publishing at the Brooklyn Botanic Garden, presented an inspiring lecture based on her new book *Plant*. The evening began with a guided walk in the Caroline Black Garden with Glenn Dreyer and also included a synopsis of the previous year’s highlights and the presentation of awards to the winners of Capturing the Beauty of Nature, the Arboretum’s annual photography contest.

Prides Corner Farms, a large wholesale plant nursery in Lebanon, Connecticut, once again allowed our members a special day of discounted plant sales in mid June. We are most grateful for their support.

A new event for the Arboretum and the entire region was the Bonsai and Asian Arts Festival, which combined the exhibition of miniaturized living trees with nature paintings by Asian artists. This event was a successful collaboration between the Arboretum, the China Trade Bonsai Society and the College’s Chu-Griffis Art Collection. China Trade is a local club dedicated to the art of training trees grown in shallow dishes to appear to be miniaturized versions of mature specimens. The Chu-Griffis Collection was established at Connecticut College in 1985 by Professor of Chinese Charles Chu and local attorney Hugh Griffis. Mr. Chu is also a talented artist and, in addition to offering a painting



**THIS PAGE FROM THE TOP: ENVIRONMENTAL AUTHOR AND PUBLISHER BRENDAN HANRAHAN SPEAKING ABOUT CONNECTICUT NATURAL HISTORY; YOGA IN THE ARBORETUM OUTDOOR THEATER LED BY ASHLEY HANSON '82; ASSISTANT DIRECTOR DAME AND TOM LEE, PRESIDENT OF THE CHINA TRADE BONSAI SOCIETY, AT THE FIRST ANNUAL BONSAI AND ASIAN ARTS FESTIVAL**

**OPPOSITE PAGE: DAVID BINGHAM LEADING A BIRD AND BUTTERFLY TRIP AT WALDEN PRESERVE, SALEM**



# education











**ABOVE: FIELD TRIP TO THE CLOISTERS, NYC**

**BOTTOM LEFT: NATURALISTIC HOLIDAY ORNAMENT WORKSHOP**

**BOTTOM RIGHT: FIELD TRIP TO WAVE HILL, BRONX, NY**

demonstration, he created four new works inspired by bonsai especially for this show. Also available during the day were bonsai demonstrations, lectures, bonsai supplies and food.

Visiting gardens is always fun and inspiring, and this was the case for a bus full of members and friends who toured Wave Hill and The Cloisters in July. Wave Hill is a classic example of an estate turned public garden on the banks of the Hudson River in the Bronx. The Cloisters, a museum of medieval art and architecture, features a recreation of a monastery garden within a courtyard.

Michael Lasser, a musician who draws inspiration from nature, presented “Flowers, True Love and Popular Songs.” Co-sponsored by the New London Garden Club, Lasser’s presentation described the ways that popular music has used botanical references to reflect the social and emotional context of their day.

Two popular educators returned during the fall. Environmental Studies Lecturer Beverly Chomiak led a hardy crew to the Thames River to explore Mamacoke Island’s geologic mysteries. Brendan Hanrahan gave a four-evening series of lectures targeted at Connecticut teachers seeking to enrich their science curriculum. Brendan covered earth sciences, geology, the age of dinosaurs and critical habitats and species conservation.

While the weather was still pleasant, anthropology professor Harold Juli led a walk that illustrated his archeological research in parts of the Arboretum along the Thames River, and arboretum volunteer Allen Gauthier led our annual fall foliage walk in the Native Plant Collection.

Another recurring event in the Arboretum Calendar is the SALT Seminar for homeowners. SALT stands for Smaller American Lawns Today, an idea developed by the late ecologist and Arboretum Director William Niering. Each year we bring together experts for a day of helping homeowners find ways to convert their yards to more attractive, environmentally friendly, less maintenance demanding places. This year the speakers were: Carl Salsedo, extension educator at the UCONN Cooperative Extension, “Picturesque and Environmentally Friendly Landscapes: Gardening with Sustainable, Low Maintenance Plants;” Leslie Duthie, propagator and horticulturist at the Norcross Wildlife Sanctuary, “Backyards for Wildlife;” Annaliese Bischoff, associate professor of landscape architecture, University of Massachusetts, “Creating a Palette of Color for Your Outdoor Space;” and Laura Eisner, landscape designer and associate editor for People, Places, and Plants magazine, “Native Plants for Four Season Gardening.”

For the youngsters and the young at heart, we offered a workshop on creating naturalistic holiday ornaments in early December. Kathy Dame, Caroline Driscoll and volunteer Nancy Patenaude provided guidance. This event signaled the beginning of a new emphasis on environmental education for children within our community. For adults, horticulturist Jeff Smith reprised his popular holiday wreath-making workshop

In 2005 the Arboretum offered 28 different educational programs to at least 720 participants.



# o **u** t r e a c h







**LEFT: CHILDREN ON ARBO PROJECT TOUR PLANT A REDBUD TREE.**

**BELOW: PARTICIPANTS IN THE SCOTTISH HIGHLANDS AND ORKNEY ISLANDS TOUR. BACK ROW, L-R: JEAN DREYER, LESLIE DUNCAN (AIGAS RANGER), CAROL RAMSEY '74, JOAN FAUST, CAROL LEVINE, BRONA DOYLE (AIGAS EDUCATION OFFICER), RICHARD BELL, PROFESSOR HELEN REGAN, RICHARD REGAN, ANNE BELL '55, KATHERINE SNOOK. FRONT ROW: GLENN DREYER (L), DONALD SNOOK. NOT PICTURED: SUSAN LYNCH '62, JACK DREYER.**



**the arbo project**, which originated as an individual study project by Kirsten Bilodeau '93, has slowly grown to become an important aspect of the Arboretum's community outreach. For more than 10 years, Connecticut College students have recruited and trained their peers to give environmental education tours to local young people. The Arboretum's role has been to help train and orient volunteer guides and to maintain curriculum quality control. The College's Office of Volunteers for Community Service (OVCS) continues to co-sponsor the program, particularly by providing funding for part-time coordinators. In 2005, Gintas Krisciunas '03 and Danielle Sipplak '05 served as coordinators. This year, the Arboretum made special labels for trees along the route typically used by the student guides and also provided books, backpacks, brochures and some additional funding for the program.

**Spring 2005  
Student Volunteer Guides**

- Christina Dieitrich '07
- Samuel Benson '08
- Katie McLinn '06
- Reynaldo Lugo '06, student coordinator
- Katherine Bately
- Jennifer Dillon '07 student coordinator
- Sally Girouard '06
- Gintas Krisciunas '03
- Andrew Lagace '08
- Nicole Porter '08
- Danielle Sipplack '05
- TOTAL: 10 tours, 165 children.

**Fall 2005  
Student Volunteer Guides**

- Ben Alander '06
- Rebeccah Beachell '09
- Susana Hancock '08
- Karen Ladr '09
- Katie McLinn '06
- Nicole Porter '08
- Emily Risebfekd '09
- Jessica Zhao '07
- TOTAL: seven tours, 110 children.

**capturing the  
beauty of nature**

Our annual photo contest attracted more than 100 entries this year. Volunteer Wendy Rappaport helped to create an attractive display of the photos in the first floor of the Olin

Building in early June. Judges Nina Lentini, associate director, Media Relations; Marylynn Fallon, senior lecturer, Biology; and Marlene Oko, volunteer, had a challenge in selecting the following winners:

#### Children

- 1st Place – Jennifer Portella for “View Point”
- 2nd Place – James Thorstenson for “Reaching for the Sky”
- 3rd Place – James Thorstenson for “Tree Rings”
- Honorable Mention – James Thorstenson for “Lily Pond”
- Honorable Mention – Benjamin Hammel for “My 8-Legged Friend”
- Honorable Mention – Lizel Jackson for “White Birch”
- Honorable Mention – Safwan Saeed for “Clouds in the Pond”

#### Adult

##### Black & White

- 1st Place – John Sargent for “Duck Tracks”
- 2nd Place – Yong Zha Chen for “It Looks Like a Painting”
- 3rd Place – Kerry Henderson for “Looking Down”

#### Adult

##### Color

- 1st Place – Christine Cleary for “Untitled”
- 2nd Place – Robert Ortiz for “Late Afternoon Sun”
- 3rd Place – Robert Spitz for “Peak Foliage”
- Honorable Mention – John Sargent for “Evening Reflection”
- Honorable Mention – Doug Hammel for “Solitary Leaf”
- Honorable Mention – Don Carso for “Magnificent Magnolias”
- Honorable Mention – Berta Nelson for “Copper Beech Eloquence”

**tours** The Arboretum docents provide free public tours of our plant collections every Sunday afternoon during the growing season. In 2005, the tenth year of this program, 120 people participated in these walks. Volunteers and staff also give many tours of the Arboretum for private groups, which this year included about 250 people from the following organizations: The New London, Lyme, and Stonington Garden Clubs, The Red Hat Society, The Connecticut Daughters of the American Revolution, Girl Scouts of the U.S.A., Clark Lane Middle School and Cornell University. Staff also provides tours every year for the College’s Open House events for prospective students in spring and fall, and usually two tours for alumni during Reunion.

**travel** Director Dreyer led a group of 14 Arboretum Members on a two-week tour of the Scottish Highlands and the Orkney Islands, which are located a few miles north of the mainland. The trip was organized by the Aigas Field Centre, and the group spent the first week based at their facility 12 miles west of Inverness. The schedule included day trips to a variety of natural areas, private gardens, castles and historic sites. A leisurely two-day bus trip around the scenic northwest

and north coast of Scotland ended with a ferry ride to Orkney. Four days on this group of islands provided many opportunities for birding and viewing wildflowers and archeological sites. This was the fourth, and hopefully not last, Arboretum trip to the Highlands.

## other notable outreach events

February Greenhouse Open House sponsored by the Arboretum, the Botany Department and Botany Advisory Board. Amy Angell '05, who had conducted an individual study in greenhouse management, hosted the event that was attended by 103 people.

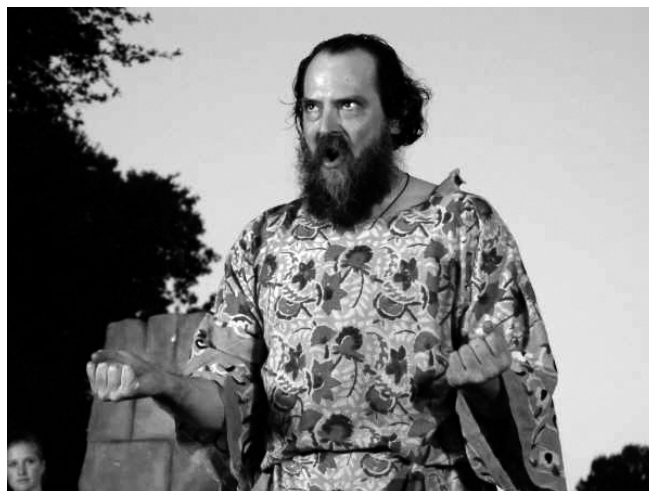
In April, Assistant Director Kathy Dame spoke to a regional Master Gardener class about the Arboretum’s volunteer program and gained some new recruits.

On Earth Day the Arboretum co-sponsored, with the Southeast Group of Connecticut Sierra Club, a forum and reception on the National Environmental Policy Act (NEPA) with speaker Andrea Ferster, a Washington, D.C.-based environmental lawyer and general counsel of the Rails to Trails Conservancy. Designed to refresh knowledge about the NEPA and build alliances between Southeastern Connecticut environmental groups. Approximately 75 people attended the event.

Curator Mary Villa made tree label signs for the Salem Girl Scout Troop 3082. The scouts then placed the labels on the trees at the Walden Preserve in Salem. The troop leader is long-time Arboretum volunteer Beck Nortz.

Caroline Driscoll, as a representative of the Arboretum, conducted an invasive species identification walk in Bates Woods for the celebration of Earth Day in New London.

Flock Theater produced Shakespeare’s “Henry V,” “A Comedy of Errors” and a series of Moliere’s short plays in the Arboretum’s outdoor theater during July, August and September. Approximately 1,500 people attended the plays.







**ABOVE: VOLUNTEER ED  
SUTER HELPS A BUYER  
AT THE FALL 2005 PLANT  
SALE**

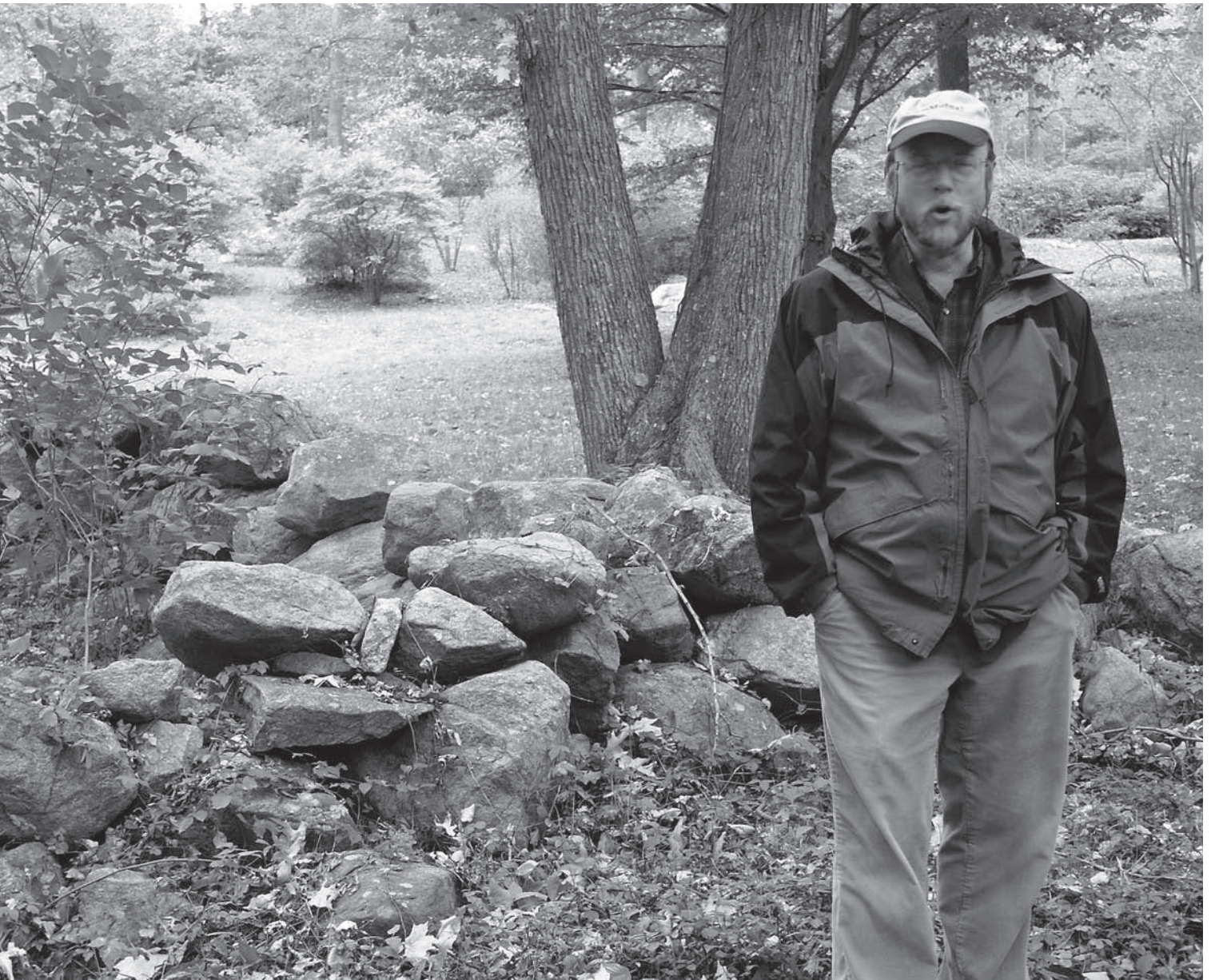
**LEFT: THE RING OF  
BRODGAR, STENNESS,  
ORKNEY**

**OPPOSITE PAGE: FLOCK  
THEATER PRODUCTION  
IN THE OUTDOOR  
THEATER**





# teaching



OPPOSITE PAGE, TOP: PAGE FROM A KEY  
TO ARBORETUM POND INVERTEBRATES

BOTTOM: GIS MAP OF MOUNTAIN  
LAUREL SHRUB DISTRIBUTION IN THE  
BOLLESWOOD NATURAL AREA

ABOVE: UCONN GEOLOGY PROFESSOR  
ROBERT THORSON DISCUSSES  
ARBORETUM STONE WALLS.



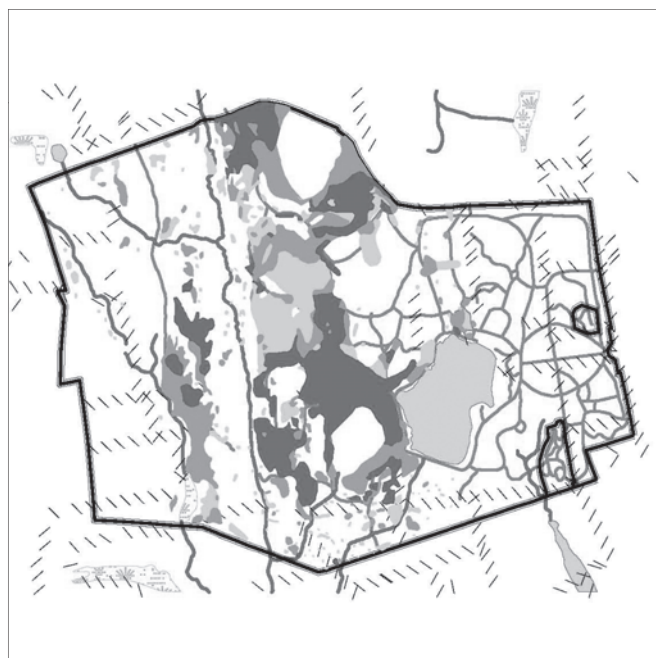
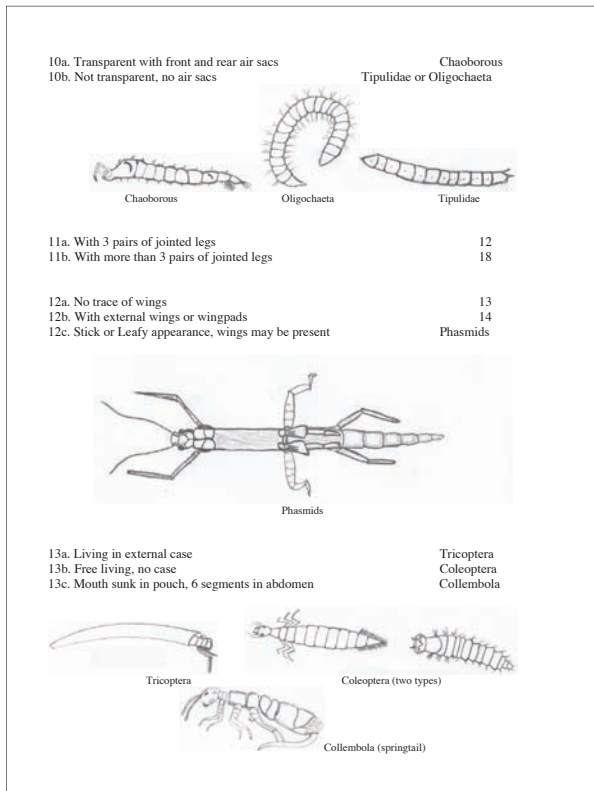
**biology professor** Steve Loomis' invertebrate biology course did quantitative sampling of invertebrates in the Arboretum pond associated with the lily pads, the benthic (bottom) environment, the open water and the pond edge. Such sampling has gone on for a number of years, and the results will be very interesting to compare to sampling done after a portion of the pond is dredged to a greater depth in the next few years. Mike Patterson '07 developed an illustrated key to the Arboretum pond invertebrates as an individual study project.

The relatively new ecology course (part of the four-course introductory biology sequence) continued to be developed by biology professors Anne Bernhard and Robert Askins. The Arboretum is used for six classes with five or six lab sections, each with 12-15 students.

Professor Bernhard, a marine microbial ecologist, also uses the Mamacoke salt marsh in her microbiology class to teach about the role of microorganisms in these special habitats. In her research program, she has used the Mamacoke marsh to collect samples of nitrifying bacteria with the goal of understanding their physiology and distribution.

Botany professor Peter Siver's freshwater ecology class collected phytoplankton and zooplankton from a variety of habitats in the Arboretum. They also set up an experiment to measure and compare the light spectrum reaching different locations, including in an open field, under a forest canopy and at different depths in the Arboretum Pond. Professor Siver's "Plants Protists and Fungi" class collected snow and water from seven different Arboretum locations and measured the pH and anions in the samples. On field trips in the Arboretum, the class collected bryophytes (mosses and liverworts) for laboratory examination to observed flower structure.

Ethnobotany Professor Manuel Lizarralde began to integrate Geographic Information Systems (GIS) technology in two of his courses during the fall 2005 semester. In his ecological anthropology course, students used GPS units to map stone walls in the Arboretum's Native Plant Collection, with the aim of understanding past agricultural land use. Professor Lizarralde invited University of Connecticut geologist and stone wall expert Dr. Robert M. Thorson to talk to his students and Arboretum staff about classifying and interpreting stone walls. Thorson then led the group on a field trip in the Native Plant Collection to observe walls and discuss projects. With more than 14 linear miles of stone walls within the College Arboretum's 750 acres, there is much



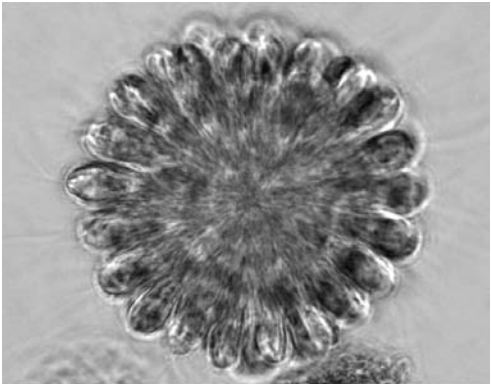
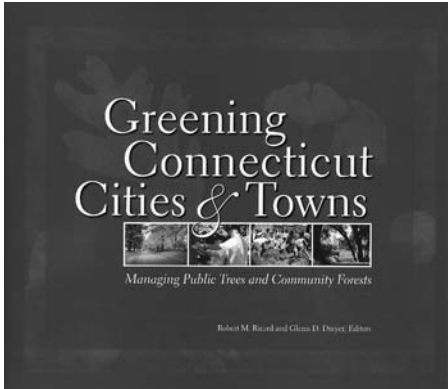




**ABOVE: CLEARING AND GRADING OF FIVE ACRES IN MEADOW RESTORATION PROJECT**

**LEFT: DIRECTOR DREYER'S BOOK ON MANAGING PUBLIC TREES**

**RIGHT: SYNURA SPP, A COLONIAL PHYTOPLANKTON COLLECTED FROM THE ARBORETUM POND BY THE FRESHWATER ECOLOGY CLASS**





mapping and interpretation to be done. In Professor Lizalde's ethnobotany course, pairs of students chose among 14 native trees and shrubs and used GPS units to map the distribution of the species in the Native Plant collection and Bolleswood Natural Area.

ES/Geology Lecturer Beverly Chomiak's Introduction to GIS course utilizes the ever-increasing Arboretum geographic database for both teaching exercises and student projects. One interesting project was the mapping of mountain laurel (*Kalmia latifolia*) distribution in the Bolleswood Natural Area. Started by Scott Peterson '06, this was completed during the summer by Emily Southard '06. In addition to mapping the location and abundance of the shrubs, they also compared the distribution to various environmental factors including soils, geology, topography and aspect.

While teaching Introduction to Physical Geology, professor Doug Thompson and lecturer Beverly Chomiak used the Arboretum for four laboratory sessions.

Chemistry professor Bruce Branchini asked the Arboretum to cultivate the perennial plant *Centranthus ruber* for an exercise in his Organic Spectroscopic Methods course. The purpose was to teach students the techniques for extracting and identification of plant based organic compounds using modern spectroscopy, particularly Nuclear Magnetic Resonance (NMR). The experiment exemplifies procedures for obtaining bioactive compounds from natural sources, which have been the origin of many modern medicines.

Bryan Connolly, a botanist from Mansfield, Conn., taught Plant Systematics and the Local Flora and Plant Ecology, two courses that have utilized the Arboretum more than any others over the years. Mr. Connolly will teach these courses as a visiting instructor until the Botany Department is able to recruit a new tenure-track ecologist for the faculty.

## update on the Meadow Restoration Project

Site preparation work continued on the 12-acre meadow at the eastern end of Benham Avenue. Seven acres of the site had been in a meadow/thicket stage of vegetation development but with heavy encroachment at the periphery by forest species and many invasive exotic plants. After mechanical clearing last year, multiple herbicide and mowing treatments were used to inhibit the many undesirable species from re-growing. The meadow complex was expanded by clearing an additional five acres last year, and this area was graded, mowed and herbicided. A meadow seed mixture was specified and ordered for spring 2006 planting. We anticipate that as this meadow develops, it will have increasingly important conservation, teaching and research functions.

## publications

Two publications resulting from the long-term vegetation studies in the Arboretum's Bolleswood Natural Area were published in the same issue of a leading botanical journal this year. Both Sarah Goslee '92 and Melanie (Daisy) Small '03 were botany majors and participated in the long-term surveys. Sarah utilized the data in her Ph.D. dissertation at Duke, and her paper is probably the last which will include the late Dr. William Niering as a co-author. Daisy's honor's thesis was the basis for the hemlock paper.

■ Goslee, S .C., W.A. Niering, D.L. Urban and N.L. Christensen. 2005. Influence of environment, history and vegetative interactions on stand dynamics in a Connecticut Forest. *Journal of the Torrey Botanical Society* 132(3): 471-482.

■ Small, M., C. Small and G. Dreyer. 2005. Changes in Hemlock-dominated Forests Following Woolly Adelgid Infestation in Southern New England. *Journal of the Torrey Botanical Society* 132(3):458-470.

Glenn Dreyer has been involved in community tree programs since becoming a member of the Connecticut Urban Forest Council in 1992. The State's Urban Forestry Cooperative Extension Educator Bob Ricard invited him to help write and edit a book based on the popular Meskwaka Tree Training Program for community volunteers that is held each summer at Connecticut College. The book is an introduction to everything needed for a successful community tree management program. Glenn wrote the chapters on basic tree biology; tree Identification; and tree protection during construction. Glenn and Bob, in addition to editing the book and supplying most of the photographs, co-wrote the chapters on the history of community forestry in Connecticut; ecology, ecosystems and urban areas; and community assessment. Thanks to Susan Sachadt, the UCONN graphic designer and illustrator for this project, this book won a Silver Communications Award from District 1 of the Council for the Advancement and Support of Education (CASE).

■ Ricard, R.M. and G.D. Dreyer, eds. 2005. *Greening Connecticut Cities and Towns: Managing Public Trees and Community Forests*. University of Connecticut College of Agriculture and Natural Resources. Storrs. 265 pages.

The following article was sent to the Arboretum by co-author David Wright, the parent of a 2005 Connecticut College graduate. The paper describes a previously unknown butterfly species and includes color photographs of the butterfly and two closely related species taken in the Arboretum.

■ Pavulaan, H. and D. M. Wright. 2005. *Celastrina serotina* (Lycaenidae: Polyommatainae): A new Butterfly species from the Northeastern United States and Eastern Canada. *The Taxonomic Report of the International Lepidoptera Survey* 6(6): 1-18.

■ Patterson, Michael, 2005. An artificial key to the common aquatic invertebrates of the Connecticut College Arboretum Pond. Individual Study Report. 10 pages.

**this year** the Arboretum formed its first Plant Collections Committee comprised of director Glenn Dreyer, curator Mary Villa, horticulturist Jeff Smith and campus grounds supervisor Jim Luce. The results included the college's first Invasive Plant Removal Policy which emphasized control of exotic invasives in the cultivated collections and resulted in the removal of all burning bush (*Euonymus alata*) shrubs from the main campus landscape. The Collections Committee also developed a list of trees desirable for new campus plantings and a list of potential garden and collection locations on campus. Referring to an inventory of plants in the Arboretum nursery, the committee decided on transplanting goals for spring season. Plants both from our nursery and those purchased commercially were installed as listed below. Another important topic was the identification and removal of hazardous trees, particularly in the areas most frequented by people. As a result, a number of trees deemed as dangerous were removed from both the Campus and the Native Plant Collection.



## native plants

Curator Mary Villa began her first collection inventory with the Native Plant Collection. A part-time Arboretum employee, Mary examined about half of the specimens in the approximately 25-acre area in 2005 and will complete the survey in 2006. Mary was assisted by Katry Linnamaa '06, Rachel Zwick '08, Tara Morazzini '09 and Leia Crosby '09.

Development of the Gallows Lane maintenance area continued with the removal of a number of white pines (*Pinus strobus*) to accommodate the expansion of the fenced compound east of the log cabin garage. Arboretum staff cut the trees and installed chain link fence around an area that will be used primarily as a container nursery.

Browsing by white-tailed deer in the Native Plant Collection continued to be a problem in 2005. Staff installed metal fencing around all newly planted specimens and selected existing shrubs, including portions of the native *Viburnum* collection. A "cattle grate" was installed at the Arboretum vehicle entrance to Gallows Lane. An approximately 15-by-15 foot section of metal pipes welded to metal beams was placed at the level of the driving surface to form unstable footing for hooved animals. This allows the gates to be left open for events at Buck Lodge or elsewhere without the fear of deer walking into the collection area.





# ctions



THIS PAGE TOP: JEFF SMITH AND CHIP MCILWAIN LOAD WHITE PINE LOGS AFTER CLEARING TO EXPAND THE ARBORETUM MAINTENANCE COMPOUND.

THIS PAGE LEFT: CATTLE GRATE AT GALLOWS LANE DRIVEWAY TO PREVENT WHITE-TAILED DEER FROM ENTERING NATIVE PLANT COLLECTION

OPPOSITE PAGE TOP: COVER OF THE CAROLINE BLACK GARDEN TOUR GUIDE FOR DOCENTS

OPPOSITE PAGE BOTTOM: LEVINSON AND DEAN FRIENDSHIP MEMORIAL AT NORTH END OF ARBORETUM POND (SEE MEMBERS SECTION)



Another very important step in controlling the intrusion of deer into the Native Plant Collection and Bolleswood Natural Area came as a reimbursement grant from the USDA Natural Resources Conservation Service (NRCS). Recognizing that burgeoning deer herds were compromising the value of the collections and habitats in the Arboretum, and therefore the teaching, research and conservation programs, the NRCS approved a grant that will partially fund extending a 7-foot chain link fence surrounding this 100-acre area to a height of 10 feet. This will prevent deer from entering the area by jumping over the fence. The fence extension project will be accomplished over a number of years, with work on the Gallows Lane segment beginning first.

The NRCS also approved a reimbursement grant that will be used to increase the depth of a portion of the Arboretum Pond. The goals of this project are to create new, deep-water habitats by dredging about one acre of the four-acre pond area to a depth of about 10 feet. The year-round, deeper water habitat, without emergent aquatic plants, will complement the remaining shallow freshwater habitat that will remain rich in water lilies and other bottom-rooted plants. The northern section of the pond, near the outdoor theater and Buck Lodge, was dredged in 1992, but this was a preliminary project, which did not dig deep enough to exclude water lilies on a long-term basis. Preliminary plans are for the addition of a board walk through both the deep and shallow zones of the pond. It is anticipated that the Pond will be drained and excavated during the summer of 2007.

A renovation of the outdoor theater adjacent to the Pond is also being planned. The theater's perimeter landscape is composed predominantly of Eastern Hemlock (*Tsuga canadensis*), which has been under assault for 15 years by the hemlock woody adelgid. Rather than continue to spray the slowly dieing trees twice each year with horticultural oil, the trees will be removed. Some dredge materials from the pond will be used to regrade the theater floor so that the rear of the audience area is a few feet higher, and a new landscape plan featuring a diversity of native species will be created.

## caroline black garden

An important interpretation tool for the lovely Caroline Black Garden was completed this year in the form of a docent handbook. It was developed specifically for use by the volunteers who lead collection tours, providing them with plenty of information to share with visitors. The majority of the booklet is devoted to full page, illustrated description of 35 of the most significant plants in the Garden. Also included is a color map of the plant locations, a short biography of Dr. Caroline Black, and a history of the Garden's development. The pamphlet was created over a series of years by the following volunteers and staff: Caroline Driscoll, Nancy Burrows '97, Mary Villa, Kathy Dame and Glenn Dreyer.

## new community project

The Arboretum was invited by the Connecticut Department of Environmental Protection Office of Long Island Sound Programs to partner with them to create a Native Plant Demonstration Garden at the Barn Island Wildlife Management Area in Stonington. Curator Mary Villa and Director Glenn Dreyer developed a garden design and planting plan for an area located just north of the recently upgraded boat launch site. Situated at the head of a major trail and overlooking the eastern side of the marsh complex, the garden will serve as an orientation and staging area for individual visitors and organized groups. The garden will display a wide variety of native shrubs and perennials suitable for landscaping in Connecticut's coastal zone.

## new campus plantings

*Carpinus japonica*, Japanese Hornbeam  
*Cornus florida* 'Cherokee Princess', Flowering Dogwood — **memorial to Donnie Lee Bailey**  
*Cornus kousa* 'Satomi', Kousa Dogwood — **memorial to Molly Armsworth Helms**  
*Heptacodium miconioides*, Seven-son Flower  
*Oxydendron arboreum*, Sourwood  
*Stewartia pseudocamellia*, Japanese Stewartia  
*Styrax japonicus* 'Pink Chimes', Japanese Snowbell  
*Quercus alba*, White Oak  
*Rhododendron* 'Mother's Day', Azalea

## native plant collection plantings

*Celtis occidentalis*, Common Hackberry  
*Cercis canadensis*, Eastern Redbud  
*Comptonia peregrina*, Sweetfern  
*Cotinus obovatus*, American Smoketree  
*Gymnocladus dioica*, Kentucky Coffeetree  
*Kalmia latifolia* 'Sarah', Mountain Laurel  
*Lindera benzoin*, Spicebush  
*Magnolia macrophylla*, Bigleaf Magnolia  
*Myrica pensylvanica*, Northern Bayberry  
*Picea glauca*, White Spruce  
*Prunus maritima*, Beach Plum  
*Ptelea trifoliata*, Hoptree





ABOVE LEFT: NATIVE  
SMOOTH SUMAC (*RHUS  
GLABRA*) IN FRUIT

ABOVE RIGHT: NATIVE  
STRIPED MAPLE (*ACER  
PENNSYLVANICUM*)  
BARKS

RIGHT: SEPTEMBER  
BLOOMING SEVEN-  
SON FLOWER  
(*HEPTACODIUM  
MICONIODES*)  
PLANTED ON CAMPUS  
THIS YEAR



# people

## staff and associates

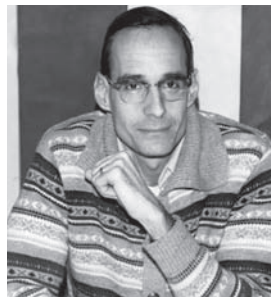
**in february**, Bryan Goulet of Groton, Conn., joined the Arboretum staff as a grounds person. A graduate of the University of Massachusetts, Stockbridge School of Agriculture, with a concentration in arboriculture, Bryan was a member of the College's grounds staff for the previous seven years.

In recognition of his seven years of distinguished service to the Arboretum, Charles "Chip" McIlwain was promoted to senior grounds person.

Long-time Arboretum research associate and Professor Emeritus of Zoology Paul Fell died on 12/1/05. A member of the College community since 1968, Dr. Fell utilized the Arboretum for many of his classes and research projects. One example was his studies of freshwater sponges that live in the Arboretum Pond. Professor Fell contributed his knowledge of invertebrates and fish to four Arboretum Bulletins (No. 20, 23, 34, and 37). He was actively pursuing his research interests with Professor R. Scott Warren on the tidal marshes of Long Island sound up to the time of his death.



CLOCKWISE FROM  
TOP: ARBORETUM  
HORTICULTURE STAFF  
(L-R) CHARLES (CHIP)  
MCILWAIN, BRYAN  
GOULET AND JEFF SMITH  
STUDENT WORKERS TARA  
MOARAZZINI '09 AND  
LEIA CROSBY '09  
THE LATE PROFESSOR  
PAUL FELL



## arboretum student employees

### spring 2005

Amy Angell '05  
Rory Jose '05  
Susan Laszewski '05  
Alex Tenenbaum '07  
Seth Stulen '07  
Joel Scata '06  
Amanda Mohammed '07  
Jenna Rosenwasser '08

### fall 2005

Katri Linnamaa '06  
Seth Stulen '07  
Alex Tenenbaum '07  
Amanda Mohammed '07  
Rachel Zwick '08  
Jenna Rosenwasser '08  
Samuel Watters '09  
Joel Scata '06  
Tara Morazzini '09  
Alec Lager '09  
Leia Crosby '09

### summer 2005

Kate Warren  
Ben Loomis  
Mark Warren '07



# volunteers



VOLUNTEERS VISITING TOWER  
HILL BOTANIC GARDEN

## volunteers provided

more than 650 hours of service to the Arboretum during 2005. Some of their many contributions included leading tours of our three major plant collections as docents; helping to cultivate our collections as hort helpers; instructing classes and workshops; leading field trips; staffing the annual plant sale; and judging the photography contest.

Volunteers get together with staff for picnics at Buck Lodge twice each year to socialize and discuss projects. This

year many participated in a fun and educational bus trip to Tower Hill Botanic Garden in Boylston, Massachusetts.

Thank you to the following

## volunteers, 2005

David Arnold  
Platt Arnold '62  
Jean Baker  
David Bingham  
Pat Bolles  
Roberta Brouwer  
Nancy Burrows '97  
Ginny Butler  
Beverly Chomiak  
Charles Chu  
Richard Conway  
Jean Coyne  
Dianne Daniels  
Vita Dodson MA '83  
Wendy Dreyer  
Caroline Driscoll '84  
Marylynn Fallon  
Joan Flynn  
Denise Garofalo  
Allen Gauthier  
Kenneth Graham  
Tim Grimes  
Kari Hammen  
Ashley Hanson '82  
Art Ives  
Harold Juli  
Wendy Kelleher  
Mark Kronenberg  
Peg LaPorte

Nina Lentini  
Anne-Marie Lizarralde '91  
Manuel Lizarralde  
Jim Luce  
Janice McCue  
Virginia Montgomery  
Sandra Morse  
Susan Munger  
Karen Niedzwiadek  
Becky Nortz  
Marlene Oko  
Lydia Pan  
Nancy Patenaude  
Betty Pinson  
Wendy Rappaport  
Carl Salsedo  
Robert Sherman  
Arlene Scott  
Elizabeth Smith  
Louis Sorrentino  
Ed Suter  
Mari Suter  
Sally Taylor  
Craig Vine  
Sheila Wertheimer '84  
Kathryn Williams  
Michael Wuenscher  
Students from the Williams School

**LEFT: VOLUNTEERS SALLY TAYLOR (R), SUSAN MUNGER AND NEIL OLDHAM AT A POTLUCK DINNER, BUCK LODGE**

**RIGHT: KATHY DAME WITH LONG-TIME VOLUNTEER GINNY BUTLER AT PLANT SALE**





**the connecticut college** Arboretum

gratefully acknowledges the financial contributions made by the following individuals and organizations in 2005. We strive to accurately maintain our records and appreciate receiving corrections.

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 Ryder, Mrs. Bertram  
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 Van Sloun Foundation  
 Van Sloun, Neil & Sylvia

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 Record, Stephen & Mary Sue  
 Verplanck, Anne A.  
 Winslow, Katherine & Carlton

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and families**

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 Anderson, Joellen  
 Anderson, Dexter Mr. & Mrs..  
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 Driscoll, Marguerite  
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 Goodwin, Richard & Esther  
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 Haderer, Elizabeth  
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 Hammen, Kari B.  
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 Luckraft, Dorothy  
 Madsen, Louise  
 Manning, Gloria C.  
 Marra, Robert E. Dr.  
 Masters, Martin  
 Mathieson, Helen F.  
 McCabe, Maureen

**Doris Goldstein Levinson and Miriam Rosnick Dean, both Class of 1941, met at Connecticut College and have been close friends ever since. In 2004 we were contacted by their sons who wanted to establish a memorial to their mother's friendship. The result was a rustic bench overlooking the north end of the Arboretum pond, with a plaque on a boulder just behind the seat.**





McCallum, Joan E.  
McCracken, Robert F. Mrs.  
McGeorge, William B. Mrs.  
McGuire, Francis F. Mrs.  
McGuire, James & Ellen  
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McKeon, Mary Gertrude  
Meier, Kristin  
Meneice, Shirley A.  
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Moore, Christina  
Morse, Sandra  
Morse, Steven  
Morse, Theresa  
Mrouse, Martin Mr. & Mrs.  
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Peregrin, Amy  
Perot, F. Kincaid

Pessirico, Harold & Horowitz, Rivka  
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Tonucci, Martha  
Touw, Jeanne L.  
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Zachas, Catherine  
Zimmerman, Lynne D.  
Zonas, Adam L.



*Snowy Trees* by Susan Parish



