

urban HORTICULTURE

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UNIVERSITY OF WASHINGTON COLLEGE OF FOREST RESOURCES

SUMMER 2004

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Good Road Lunch Room, Asahel Curtis, ca. 1903.

Arboretum History now on the Web

JOHN WOTT, PH.D, DIRECTOR OF THE WASHINGTON PARK
ARBORETUM

When the Arboretum Master Plan was unanimously approved in May of 2001, one of the next steps was to research and write a history of Washington Park and the Arboretum. It was funded by Pro-Parks Funds through the City of Seattle. Susan Boyle of BOLA Architecture + Planning and Karen Kiest of Karen Kiest Landscape Architects led the team that did the work. It resulted in a comprehensive 137-page study plus 7 page appendix. Entitled the *Washington Park Arboretum Historic Review*, the document was released to the public in September of 2003. It is now available on the City of Seattle web site and in hard copy at the Miller Library at CUH.

It details in chronological order, with a plethora of references and photographs, the life of the arboretum lands from the era of pre-settlement and the pioneer era of the mid-to-late nineteenth century, up through the 1970's. The research team consulted with a number of authorities, including the City of Seattle archives, University of Washington archives, Friends of Seattle Olmsted Parks and the Olmsted records.

The document shows that within less than a hundred years, major significant changes have occurred within the Arboretum boundaries. Marvelous historic photographs depict the "lunch room" that was located at the south end of the Arboretum, the "Speed Way" harness racing track that eventually became Azalea Way, many of the landfills, and certainly many early plantings. The authors also call attention to the people who were instrumental in influencing changes. All in all, it makes for fascinating reading.

This study will be used as a reference in any future renovation or changes within the Arboretum. In many cases it will help define what was originally intended, and give us a chance to compare assumptions with what really happened. Then we can together agree on the future. A sense of where we have come from and how we got here should always be part of the planning mix.

CENTER for URBAN HORTICULTURE



News from CUH and WPA

Removal of Reed Canarygrass being Studied at CUH

Dr. Kee Dae Kim is a post-doctoral research associate working with Dr. Kern Ewing on restoration ecology research in the Union Bay Natural Area (UBNA). He comes to CUH from Seoul National University with a Ph.D. in Plant Ecology and expertise in restoration of wastelands. The results of his research will help identify better methods for restoring wetlands.

Dr. Kern Ewing, Dr. David Giblin from the Burke Museum and Dr. Kim are collaborating on a project to look at how well willow species can shade out and suppress the spread of the invasive reed canarygrass, *Phalaris arundinacea*. Reed canarygrass is an aggressive plant in the Pacific NW. Finding a biological means to control its spread is a top priority for restoration managers. The grass dominates the landscape in the UBNA East Basin.

In UBNA experimental plots, live stakes of willow were planted at three different densities. After this growing season, the leaf densities of the willows will be measured. Reed canarygrass from each plot will then be harvested, dried and weighed. Results from these measurements will provide a more detailed look at the ability of willows to serve as a biological control for reed canarygrass.

Dr. Kim is also looking at the role that transient ponds play in UBNA. These temporary ponds are present during the wet season but dry up during the dry season. They serve an important role in improving waterfowl habitat. They also make it more difficult for invasive plants to become established in the first place.

Artificial ponds will be constructed in UBNA using sediment transferred from Foster Island. The flora that grows will be analyzed and compared with the natural ponds. Results from these studies will help define the biodiversity potential of the temporary ponds.



Union Bay Natural Area at CUH

Merrill Hall Construction Shows Progress

Spring has seen progress on the construction of the new Merrill Hall. Walls, windows, and the roof are nearing completion. Most of the offices in the building will be naturally ventilated. Well over 90 percent of construction debris has been responsibly recycled by the contractor, CDK Construction. And rainwater falling on the roof will recycle into the irrigation system. The photo shown below of the Miller Library reflects a soaring design by project architects, The Miller Hull Partnership.

CUH Director Tom Hinckley is hopeful that the building will be occupied before the end of the year. The actual date for grand opening depends on the completion of The Commons, a greenhouse structure currently being built in The Netherlands. The Commons is not a place to grow plants as much as a public space for plant sales, the Master Gardener Plant Clinic, and a place to enjoy a quiet moment.

577 donors purchased 669 tiles to help build the Commons. This summer the Kenadar Corporation will etch the paver tiles which will serve as the floor of the Commons and surrounding plaza.





Carolyn Alfano (center) accepts award from Kathleen Clarke and Dale Bosworth.

Rare Care wins Conservation Award

Washington Rare Plant Care and Conservation, directed by Dr. Sarah Reichard, has been awarded the national Conservation Project Award given jointly by the US Forest Service (USFS) and Bureau of Land Management (BLM). This prestigious national award is given annually to an outstanding public lands conservation project for fish, wildlife and/or native plants and their habitats. Carolyn Alfano, Rare Care Project Manager, accepted the award from Dale Bosworth, Chief of the USFS and Kathleen Clarke, Director of the BLM, at the March awards banquet in Spokane.

The honor bestowed on Rare Care recognized the success of its program in using volunteers (over 4000 hours logged since 2001) to monitor more than 75 rare species populations in the national forests and BLM areas of Washington State. Volunteers also play a significant role in Rare Care's conservation efforts by helping with seed collecting, cleaning and storage, propagation and reintroduction plantings.

The nomination letter stated it best by saying "Rare Care has demonstrated a unique approach to harness the energy and interest of volunteers to help in native plant conservation... We believe the Rare Plant Care and Conservation Program exemplifies outstanding conservation accomplishments for native plants".

Plant Trials This Summer at CUH

CUH is once again the Pacific Northwest testing site for the Suntory collection of bedding plants. Results from these summer trials will be tabulated from testing sites around the country and collectively used to make recommendations to growers. Suntory annuals are bred for color, profusion of blooms, resistance to disease or insect damage and length of bloom season. Look for the flower trial beds near the west entrance to CUH; detailed layout maps are available at the Miller Library.

CUH's Suntory test plants are available at local nurseries:

Surfinia Petunias (Rose Vein, Baby Yellow Compact, Baby White Compact, Baby Pink Compact, Baby Blue Compact, Patio Blue and Patio Yellow);

Calibrachoa Million Bells (Bush Blue, Pastel Pink, Trailing Blush, Lavendar, Antique Rose, and Hot Pink); **Nierembergia Summer Splash** (Patio Blue and Patio Light Blue); and **Verbena** (Tapien Lilac and Temari Sakura Pink)



Dan Hinkley Receives Medal of Honor

CUH alumnus Dan Hinkley recently received the Garden Club of America's highest award, the Medal of Honor, for outstanding service to horticulture. One of the world's foremost plant collectors, Dan has led expeditions to Asia, Mexico, South America, Tasmania and Canada. He shares his passion through his teachings, writings and as a plant seller. Heronswood Nursery, founded by Dan and his partner Robert Jones, offers more than 10,000 plants for sale. Heronswood Nursery has transformed North American gardens by introducing a plethora of unusual plants. Congratulations, Dan!

Miller Library News

Miller Library Website Commended in Scout Report

The Miller Library's website (www.millerlibrary.org) was selected as one of the featured websites for the April 23 issue of *The Scout Report*, the flagship publication of the Internet Scout Project at the University of Wisconsin. Published every Friday since 1994, the report strives to find "valuable resources on the Internet" using a team of librarians and subject matter experts. Several features of the Miller Library website were recognized by the Scout Report:

"Tucked away within the numerous specialized subject libraries at the University of Washington is a gem known as the Elisabeth C. Miller Horticultural Library... The web resources section is quite nice, as it contains a number of web links organized around a host of themes, including botany, ecology and arboreta... Visitors with young children or teachers should find a thorough 20-page bibliography, titled *Children and Nature*, to be an invaluable resource." The full report can be found at <http://www.scout.cs.wisc.edu/Reports/ScoutReport/2004/scout-040423.php>.

New books at the Miller Library

Plant Discoveries, A Botanist's Voyage through Plant Exploration by Sandra Knapp. The author discusses the stunning paintings from London's Natural History Museum and places plants within historical contexts and botanical culture.

The Dos and Don'ts of Wetland Construction, Creation, Restoration and Enhancement by Edgar W. Garbisch is designed to aid professional wetland practitioners in making sound decisions.

Jefferson's Garden by Peter Loewer profiles Thomas Jefferson as a planter and landscape architect who developed his expertise from visits to the great gardens of Europe and intense study of contemporary works. Loewer discusses the annuals, perennials, trees, shrubs and vines Jefferson grew, thought about and experienced.

NHS Goes 'Over the Top' at May Auction

The Northwest Horticultural Society set a challenging goal when it organized its May auction, "Over the Top", to complete a pledge to raise \$200,000 for the Elisabeth Miller Library Furnishing Fund. The May 2 auction was wildly successful and topped the most idealistic estimates of the committee led by Pat Riehl, NHS president.

The \$40,000 needed to complete the fund was easily raised. Key to the auction's success was the bidding war to join CUH Director Tom Hinckley on a personalized tour of the Wind River Canopy Crane Research Facility. In the end Tom expanded his offer to two tours, with both bidders winning a unique treetop experience at the 25-story crane's location in southern Washington.

Other auction items included collector plants from the Miller Garden, fabulous custom planters, Peter Rabbit's house, benches, lighting, consulting services, rare books, garden dinners, special wines and garden art.

Almost 200 guests attended the dinner and auction. The Miller Library thanks NHS, the procurement committee, and everyone who donated auction items, worked for the event and bid so generously. You have helped us realize the dream of a new library with the capacity and flexibility to take us many years into the future.



Melody Hooper and Greg Graves get into the spirit at the NHS

photo by Meredith Auerbach

Plant Answer Line Questions

Continue to send your puzzling plant questions to the Miller Library Plant Answer Line. Here are a recent sampling of questions from gardeners:

QUESTION: We have a lot of Morning Glory. We try to keep up with it by pulling it out, but it seems to be winning the battle, if not the war. We ordinarily use no chemicals in our garden, but is there any other way to defeat this nasty invader?

ANSWER: Morning Glory or Field Bindweed (*Convolvulus arvensis*) has been labeled as one of the world's most troublesome weeds. Digging or mowing are poor control methods. It can be smothered with black plastic but that requires 3 or more years—and the plastic might get cracks or holes before the job is done. WSU, OSU and the U of Idaho Experiment Stations currently recommend glyphosate as the best control and even that is only listed as a fair-to-good remedy. Fortunately, glyphosate doesn't leach into the soil and is least toxic of the six chemicals they suggest. Sources: *WSU Extension Bulletin #EB1540* and *2004 Pacific NW Weed Management Handbook*.

QUESTION: We are planting four Japanese Maples in a narrow bed between a masonry building with a concrete foundation and a new concrete plaza. Do we need to provide a root barrier to prevent invasion of the foundation wall or long-term damage to the adjacent concrete slab? If the maples will cause problems, can you recommend other small trees we might substitute?

ANSWER: You will be safe with any variety of Japanese Maple (*Acer palmatum*). The Seattle City Arborist's Office recommends them as street trees (roots won't cause heaving of pavement or sidewalks), and the Urban Forest Ecosystems Institute lists them as having "low root damage potential". Sources: www.seattle.gov/transportation/treeplanting.htm (Seattle DOT, City Arborist's Office) and selectree.cagr.calpoly.edu/ (Urban Forest Ecosystems Institute).

QUESTION: The condo association where I live wants to reseed the lawns now but some of us think we should wait until fall. Can you offer an expert opinion on when reseeding should be done in the Seattle area?

ANSWER: "Overseed when conditions are good for germination and growth: Ideally April to mid-May in spring, or September 1 to October 15 in the fall. The soil must be moist, and warm enough for seeds to germinate well... Overseeding thin lawns in September will help to crowd out weed seeds that have dispersed through the summer and might take over in fall otherwise." Source: Seattle Public Utilities publication *Ecologically Sound Lawn Care Report*. Phone 206-684-7560 to receive a free copy.

QUESTION: My tulips and daffodils have finished blooming and I want to plant annuals in the same bed. Is it okay to take the bulbs out and leave them in the garage until fall?

ANSWER: Digging tulips is best done "as the foliage turns yellow....Place the bulbs loosely in mesh bags or on screen-wire trays out of direct sunlight, in a dry area with plenty of air circulation...Keep them in a dry area where the air doesn't get stale because air movement in storage is very important. The presence of a fan helps to remove gases from the bulbs' normal respiration, which is important for their health." Daffodils, "one of the most accommodating of all plants," can be treated similarly though the bulbs aren't as delicate as tulips. "If the bulbs are to remain out of the ground for any length of time, they should be placed on shallow trays in a dry but cool room." Sources: *Tulips for North American Gardens*, by Brent and Becky Heath; Bright Sky Press, 2001, p. 52 and *Bulbs: a Complete Handbook of Bulbs, Corms, and Tubers*, by Roy Genders; Indianapolis, Bobbs-Merrill Co., 1973, p. 434.



The Plant Answer Line is open from 9 a.m. until 5 p.m. Monday through Friday. Call UW PLANT, 206-897-5268, or e-mail your question to: hortlib@u.washington.edu

Arboretum Foundation News and Events

For information on the Arboretum and its programs, please visit the website at www.wparboretum.org. Event information is found at the foundation website: www.arboretumfoundation.org

Arboretum Foundation Launches New and Enhanced Website

An all-new Arboretum Foundation website is now online, featuring enhanced photographic content and e-commerce abilities. Visitors to www.arboretumfoundation.org may now buy or renew a membership online, as well as make general, targeted or memorial donations, all on a secured server for privacy and protection. The site will also allow the Foundation to register new volunteers.

New photographs, donated by photographer Jeff Krewson, grace the site's banner and many of its inside pages. The site is closely linked to the Washington Park Arboretum site, allowing visitors to navigate easily between the two. Downloadable forms include registration for the Pacific Northwest Gardens Competition and guidelines for the Arboretum photo contest.

Greenhouse Plant Sales

Ongoing plant sales on Tuesdays from 10 a.m. to noon, Pat Calvert Greenhouse. Plants grown from Arboretum collection cuttings.

Donated Plants for Sale

Wednesdays and second Saturdays, 10 a.m. to 2 p.m. Find favorite and unusual plants, all donated by area gardeners.



CUH Students Install Children's Garden

CUH students enrolled in the course, Field Practicum of Plant Selection and Management, designed and recently installed the first segment of a new children's garden near the west entrance to CUH. Located in the former Soundscape plot, the new garden will feature artwork, trails and plantings designed for kids of all ages. Follow the progress of the children's garden at <http://staff.washington.edu/tls2/images/Soundscape.pdf>.

Plants Increase Worker Innovation and Ideas

Research conducted by Dr. Roger Ulrich at Texas A&M University showed a significant increase in worker productivity if flowers or plants were included in the workplace environment. The generation of new ideas as well as creative problem solving skills were both positively influenced when flowers or plants were part of the office decor. This simple change can lead to a happier, more productive workforce. Visit www.aboutflowers.com/workplace/research.htm for more information.

New Grounds Crew at CUH

A warm welcome to the new staff at CUH who are working hard to beautify the grounds:

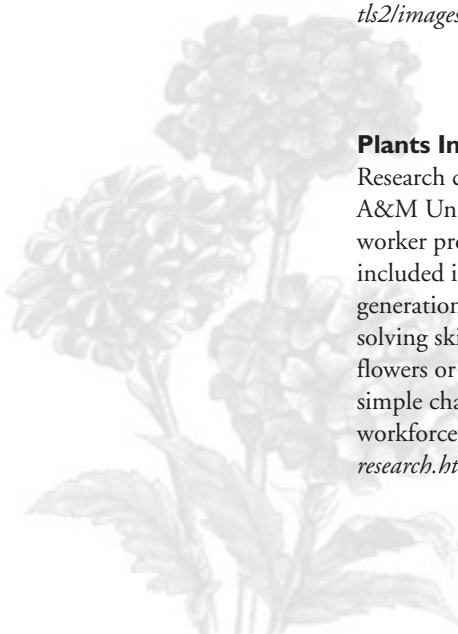
Roy Farrow worked at CUH last summer and returns to lend his expertise to the CUH grounds this summer. He is currently enrolled in the Horticulture program at Edmonds Community College.

Lynne Thompson is assigned to the Soest Garden. She recently received an A. A. S. degree from South Seattle Community College. She has also worked as an intern at the Miller Botanical Garden.

Stephanie Shelton is assigned to the Union Bay Natural Area. She has an M. A. in Landscape Architecture from the University of Georgia.

McVay Courtyard Containers

On your next stroll through McVay Courtyard, be sure to admire the new container plantings donated by the Miller Botanical Garden and designed by Ray Larson, Facilities Coordinator. Some of the plant highlights are *Miscanthus sinensis* 'Cosmopolitan', *Corokia* 'Sunsplash' and *Melianthus major*. Special thanks to Richie Steffen and Carolyn Jones of the Miller Garden for sharing their treasures.



volunteer

NEWS AND OPPORTUNITIES

Student Conservation Association Helps Restore UBNA

As part of the nationwide Earth Day celebration, approximately 150 students from the Student Conservation Association (SCA) weeded and planted their way through the Union Bay Natural Area (UBNA), logging over 600 volunteer hours in restoration work. Students attacked with gusto the holly, Scotch broom, reed canarygrass and other invasives that required removal. They also planted native ferns, willows and ash and helped to enhance trails through the area.



Student volunteer helps restore UBNA.

The SCA is a national organization whose mission is to “change lives through service to nature”. Founder Elizabeth Putnam has been honored by the White House, World Wildlife Fund and many others for her contributions to the conservation of natural resources. Student volunteers last summer contributed 1.2 million hours on restoration, conservation and education projects. Locally, some of these projects include ecological restoration at Genesee Park in Seattle, and trail maintenance at Rattlesnake Ridge and Mt. Rainier. Along the way, student volunteers learn the importance of teamwork, learn how to lead, and receive the satisfaction of contributing to a better community and planet.

The successful event was a joint effort between SCA, led by Mandy Putney and Yemaya Maurer, and CUH staff member Fred Hoyt, faculty members Kern Ewing and Tom Hinckley, and students Wendy Descamp, Casey Ralston, Chelsie Papiez, Conner Girardin, Sacha Johnson, Laura Davis and Ashley Grant. For additional information about SCA, visit the website at www.theSCA.org.

Volunteer at the Arboretum

Tuesdays in the Garden: Volunteers care for Arboretum plant collections and manage invasive weeds. Become a regular Tuesday gardener every week from 12:30 to 3:30 p.m. Phone David Zuckerman at 206-616-4050.

WPA Information Desk: Greet visitors, share your enthusiasm, answer questions, and interact with staff and other volunteers. Shift times are either half or whole days once a week. Phone Brett Mercier at 206-543-8800.

Guides for Fall Saplings School Programs

Washington Park Arboretum introduces students in grades K-8 to plant science and Arboretum collections. Volunteer guides lead Saplings School Programs, offered Monday through Friday from 10 to 11:30 a.m. during the fall and spring seasons. Each season, Saplings guides are asked to commit to lead one program per week. All levels of experience are welcome! Please call the WPA Education Department for details at 206-543-8801.

Volunteer at CUH

CUH Reception Desk: Help out with phone calls, light office work, and answering general questions. Call Ray Larson at 206-616-9113.

Union Bay Gardeners are needed to perform seasonal maintenance tasks at the Union Bay Gardens located at CUH. Contact Barbara Selemon at 206-685-2613.

Volunteer for Rare Plant Seed Vault:

Seed vault assistants clean, count or weigh and process seeds. They sow and maintain seedlings, enter data into the seed vault database and prepare select seeds for shipments. Phone Carolyn Alfano at 206-616-0780.

Seattle Youth Garden Works needs adults to work with youth crews at garden sites in the University District and South Park. Have fun planting, maintaining and harvesting crops while providing positive role models for homeless and at-risk youth. For more information, contact the volunteer coordinator at 206-525-1213, ext. 3133.

classes AND PROGRAMS

Neighborhood Plant Walk: Streetside Gardens

DATE & TIME: *Saturday, July 10, 10 a.m. to noon*
INSTRUCTOR: *Marty Wingate, garden writer*
LOCATION: *Greenwood neighborhood; map
provided at registration*
FEE: *\$30 general public; \$27 Arboretum
Foundation members;
pre-registration required*

Streetside gardens - those lush sidewalk planting strips and traffic circles that catch your eye - are making a splash around Seattle. Garden writer and horticulturist Marty Wingate will lead a walking tour of the curbside gardens in the Greenwood neighborhood. See examples of some of the many tough plants that like lean soils and don't require supplemental water. Also, learn how the plants can be combined to create an inviting curbside display. Please wear walking shoes and dress appropriately for the weather.

Western Washington Wine Tasting and Lecture

DATE & TIME: *Thursday, August 5, 7 to 9 p.m.*
INSTRUCTOR: *Gerard Bentryn, owner of
Bainbridge Island Winery*
LOCATION: *NHS Hall, CUH*
FEE: *\$35 includes wine tasting; pre-
registration required*

Gerard Bentryn is a wine pioneer in this region, having grown wine grapes since 1977. He owns one of western Washington's premier wineries and will provide for us a sampling of wines produced by his winery for tasting. The class will be held near the lovely Soest garden where students can wander as they sample the wines. Prior to the tasting, Gerard will discuss the nuances of western Washington wine grapes such as the soil and climatic conditions required to grow them. He will also cover the different grape varieties that are suited to our region as well as their European equivalents. Come sip and enjoy this truly northwest experience.

Exploring the Arboretum by Canoe

DATE & TIME: *Saturday, August 21, 9:30 a.m. to
noon*
INSTRUCTOR: *Shawna Zuege, Education Program
Assistant at WPA*
LOCATION: *UW Waterfront Activities Center*
FEE: *\$40; pre-registration required*

Visit up close the wildlife and plant life that lives near our shores. Join naturalist Shawna Zuege as she leads this canoe trip along the shorelines of Foster and Marsh Islands where great blue herons, turtles and beavers reside. We will meet at and pick up canoes at the Waterfront Activities Center near Husky Stadium and leisurely paddle to these nearby islands in Union Bay. Along with the multitude of birds that call this area their home, you'll see eagle nests, evidence of beavers and muskrats, and will learn about the unique plants that comprise this wetland habitat. Canoe rental included in class fee.

Mosaic Garden Art Workshop

DATE & TIME: *Saturday, August 28, 9:30 a.m. to 1:30 p.m.*
INSTRUCTOR: *Sarah Donnelly, owner of Sarah Donnelly Design*
LOCATION: *Douglas Classroom, CUH*
FEE: *\$70 (includes \$20 supply fee); pre-registration required*

Make a beautiful mosaic wall plaque, stepping stone, or boot brush. Sarah's unique, simple approach for creating mosaic art enables even beginners to complete a 12"x 12"x 2" project to take home. \$20 supply fee includes all materials including mosaic bits and pieces such as colorful glass, broken ceramic tile, pebbles, jewelry or found objects (feel free to bring your own!). Students will need to bring their own 2 gallon bucket, latex gloves and a 12" square cookie sheet or piece of plywood.

Plant Propagation - Cuttings

DATE & TIME: *Wednesday, September 8, 6:30 to 9 p.m.*
INSTRUCTOR: *Jeanie Taylor, Plant Propagator*
LOCATION: *Douglas Headhouse, CUH*
FEE: *\$35; pre-registration required*

Your grandmother and mother may have started their favorite plants from "slips". With helpful tricks like plant hormones and oasis foam, Seattle Parks plant propagator Jeanie Taylor will help you to start your own fuchsias, penstemons, hydrangeas, spiraeas or other favorite plants. Learn how to succeed with cuttings even without a greenhouse and expensive equipment. Supply costs are included. Plant samples will be provided - or bring your own!

Finding those Elusive Plants

DATE & TIME: *Thursday, September 9, 7 to 8:30 p.m.*
INSTRUCTOR: *Tracy Mehlin, Librarian at Miller Library*
LOCATION: *Elisabeth C. Miller library*
FEE: *\$10; pre-registration required*

Learn to be your own plant investigator. Tracy Mehlin, librarian at the Miller Library, will guide you through the many choices of electronic and print information available to hunt down, and learn about, your favorite plants. Topics will include databases and the "hidden Internet" and search strategies using magazines and books. Time will be set aside to help you research your own rare plant.

Summer Birding in Union Bay Natural Area

DATE & TIME: *Saturday, September 18, 7:30 to 10:30 a.m.*
INSTRUCTOR: *Brian Bell, Master Birder*
LOCATION: *meet at west door to Douglas, CUH*
FEE: *\$25 general public; \$22 Arboretum Foundation members; pre-registration required*

The Union Bay Natural Area is one of Seattle's best bird watching sites with over 180 species having been observed. Join Master Birder Brian Bell as he introduces you to its avian inhabitants and their identifying features. Please wear comfortable shoes.



practical gardening lectures

These lectures and demonstrations are planned jointly with the **WSU Cooperative Extension Community Horticulture Program** or the **Green Gardening Program**. They are presented by experienced **WSU Master Gardeners** or **King County Recycler Composter Program staff**.

Fall Garden Care

DATE & TIME: *Wednesday, September 22, 7 to 8:30 p.m.*
INSTRUCTORS: *Monique Elfman, Elaine Anderson and Jutta Rhinehart, WSU Master Gardeners*
LOCATION: *Douglas Classroom, CUH*
FEE: *\$10; pre-registration required*

With the arrival of autumn comes a variety of tasks to nurture the garden into and through its season of downtime. A panel of veteran master gardeners will discuss fall pruning of shrubs and perennials, mulching, dividing how-tos, protecting tender species, and using cover crops to replenish the soil. Come armed with questions from your own garden.

Raising Chickens in the City

DATE & TIME: *Thursday, September 23, 7 to 8:30 p.m.*
INSTRUCTORS: *Judy Duncan, WSU Livestock Advisor & Jennifer Carlson, owner of Havens Illustrated*
LOCATION: *Douglas Classroom, CUH*
FEE: *\$10; pre-registration required*

Raising chickens isn't just for farmers anymore. Fresh eggs and nutrient-rich chicken manure for your garden are just two of the benefits that city-bred chickens bring to you and your family's lives. Master Gardener Judy Duncan raises chickens in her Magnolia backyard. She'll discuss how to obtain and care for chickens as well as using the chicken manure in your garden. Landscape designer Jennifer Carlson has built coops featured in the NW Flower and Garden Show. She is a 25-year veteran of raising chickens in an urban setting. She'll cover the many issues to consider when siting and building a backyard coop.



Salmon-Friendly Gardening

DATE & TIME: *Tuesday, September 28, 7 to 8:30 p.m.*
INSTRUCTORS: *Katie Atkins, Head of King County Master Recycler Composter Program*
LOCATION: *Douglas Classroom, CUH*
FEE: *\$10; pre-registration required*

Through slides and demonstration, learn how to work with natural processes to grow healthy plants and lawns that require minimal water, fertilizer and pesticides and reduce environmental impacts. Sponsored by the Green Gardening Program.



guided arboretum tours

Enjoy the seasonal splendor of the Arboretum. Take a guided tour of historic Azalea Way or explore the wetlands and native plants of Foster Island. Available for groups of 10 or more. 60 to 90 minute tours are led by trained Arboretum guides. Fees are \$3 per person (\$2 for Arboretum Foundation members) with \$30 minimum. To reserve a date, phone 206-543-8801; three weeks advanced reservation required.

Weekend Walks at One

Free weekend walks are offered the first and third Sunday of the month at 1 p.m. The 60 to 90 minute walks, led by trained Arboretum guides, focus on seasonal interest in the Arboretum. Walks depart from Graham Visitors Center. Call ahead to ensure a weekend tour, 206-543-8801.

youth and family programs

For more information or to schedule the following programs, contact the Arboretum Education Office, weekdays at 206-543-8801.

Summer Day Camp at the Arboretum

An all-day program designed for children ages 7-12. To register call UW Educational Outreach at 206-543-2310.

The Washington Park Arboretum is a living museum emphasizing trees and shrubs. Think of it as a zoo for trees! Come explore the Arboretum through two educational programs that integrate art, science, environmental games, and creative writing. Discover the fascinating world of plants and the ecology of the Arboretum's wetland.

NATURE DETECTIVES for students ages 7-9

DATES: Session A - Reg #70271 July 12-16
Session B - Reg #70272 July 19-23
FEE: \$195; refund deadline 4 weeks prior to first day of class

Become a nature detective at the Arboretum this summer and use your observational skills to discover some of nature's best-kept secrets. Adopt your very own tree and write a life story (autobiography) from your tree's perspective. Follow a frog's life cycle (maybe catch one, too!) and explore pond habitat. Create nature-inspired art projects. Go wild playing plant and animal games!



ARBORETUM EXPLORERS, for students ages 9-12

DATES: Session C - Reg #70273 July 26-30
Session D - Reg #70274 August 2-6
FEE: \$195; refund deadline 4 weeks prior to first day of class

Come join us at the Arboretum for an amazing week-long adventure! Explore a bird sanctuary and tune into the "eyes and ears" of the forest. Choose a special spot to visit each day and journal your new discoveries. Through role-play, discover how Native Americans used native plants to survive. Explore the ancient mysteries of animal tracks by observing tracks on Foster Island. Create crafts inspired by nature!

Saplings School Programs

Washington Park Arboretum becomes nature's classroom for Saplings School Programs, educational tours for students in grades K-8. The 90-minute programs are held Monday through Friday mornings during the school year. Cost is \$2.50 per child (chaperones are free). Sapling's program curricula are aligned with the Washington State's Essential Academic Learning Requirements. Please call to reserve a date at least three weeks in advance.

Discover Plants:

Grades K-2

Students are introduced to the wonderful world of plants through a guided tour of the Arboretum. Students compare and contrast similarities between plants and people as they learn what each needs to grow and be healthy. They discover the function of different parts of plants through hands-on games and activities.

Wetland Ecology Walk: Focus on Habitats

Grades K-3

During a guided tour of Foster Island, students discover the purpose and function of wetlands. They investigate wildlife habitats through observations and hands-on activities in the wetlands. Students identify pond life through aquatic dips and observe a filtration experiment demonstrating functions of wetlands.



Life Cycle of a Plant: Fantastic Fall (Sept - Nov) Grades 3-6

As seasons change, so do the plants around us. Learn how fallen leaves cycle the nutrients back to the trees. Students explore seed production and dispersal, photosynthesis and the reason for leaves changing color. Students discover the secrets of autumn as they learn about the life cycle of plants from flower to fruit.

Wetland Ecology Walk: Focus on Ecosystems Grades 4-8

Students investigate the complex world of a wetland ecosystem. They discover the importance and function of wetlands through a guided tour of Foster Island featuring aquatic dips to observe pond life, filtration demonstration, wildlife tracking and scavenger hunts.

Native Plants and People Grades 3-8

Students identify several northwest native plants as they discover the historical importance of native plants to the Coast Salish people. Students explore the many ways native plants were used in daily life through discussion, by using hands-on artifacts and role-playing activities.

Arboretum Self-Guided Pack Programs

Family Adventure Packs

Investigate the wonders of the Arboretum with a Family Adventure Pack. Designed for groups of up to 5 and include easy-to-follow activities, maps, field guides, games and more. Available year-round from 10 a.m. to 3 p.m. at the Graham Visitors Center Front Desk. \$5 fee for two-hour rental; FREE to Arboretum Foundation Members and Arboretum Guides. Family Adventure Pack themes:



FAMILY TREE PACK Investigate the wonders of a living museum. Focus on leaves, buds, flowers, fruit and bark. Learn about pollination by doing it yourself!

WETLAND WONDERS Discover the ecology of Foster and Marsh Islands along the Waterfront Trail. Go on a wetland scavenger hunt, collect aquatic insects and play games. Pack comes with binoculars!

Arboretum Explorer Packs

Great for teachers, scouts, camps, daycare and other youth groups. Lead your group on an exploration of the Arboretum with Explorer Packs - rental backpacks filled with fun activities, games, maps and equipment for investigating. Several different packs are available, each with a different theme. Explorer Packs are available year-round from 10 a.m. to 3 p.m. with advance registration required. A two-hour rental fee is \$15. Each pack can accommodate 15-30 students. Explorer Pack themes:

TREE-TECTIVE Come sleuthing in the Arboretum and learn amazing facts about trees. This pack includes hand lenses, magnifiers, field guides, games and even "tree cookies!"

MARSH MADNESS Explore Seattle's largest wetland, Foster Island, through aquatic dips, wildlife identification and games. Investigate the amazing critters and plants that make the wetland their home. This pack includes dip nets, aquaria, field guides, scavenger hunts and more.

AUTUMN ADVENTURES (SEPT - NOV) Explore the changing colors in fall leaves through experiments and compare leaf fossils to see how plants have changed over geological time. This pack focuses on leaf color change, tree adaptations, fossils and leaf identification.

events calendar

FOR SUMMER 2004

JULY

- 7 WA Butterfly Association, 7 p.m., CUH
- 10 **Streetside Gardens Plant Walk**, 10 a.m., off-site
- 12 Orchid Society, 7 p.m., CUH
Miller Library Drop-In Tour, 7 p.m., CUH

AUGUST

- 2 **Miller Library Drop-In Tour**, 7 p.m., CUH
- 4 WA Butterfly Association, 7 p.m., CUH
- 5 **Western WA Wine Tasting & Lecture**, 7 p.m., CUH
- 11 Plant Amnesty, 7 p.m., CUH
- 15 Cascade Cactus & Succulent Soc., 2 p.m., CUH
- 21 **Exploring the Arboretum by Canoe**, 9:30 a.m., off-site
- 28 **Mosaic Garden Art Workshop**, 9:30 a.m., CUH

SEPTEMBER

- 1 WA Butterfly Assoc., 7 p.m., CUH
Rhododendron Society, 7:15 p.m., CUH
- 8 **Plant Propagation - Cuttings**, 6:30 p.m., CUH
- 9 **Finding those Elusive Plants**, 7 p.m., CUH
Rock Garden Society, 7:15 p.m., CUH
- 10 NHS Plant Sale, 1 - 6:30 p.m., CUH
- 11 NHS Plant Sale, 9 a.m. to 3 p.m., CUH
- 13 **Miller Library Drop-In Tour**, 7 p.m., CUH
Orchid Society, 7 p.m., CUH
Iris Society, 7:30 p.m., CUH
- 14 PS Mycological Society, 7:30 p.m., CUH
- 16 Audubon Society, 6:30 p.m., CUH
- 18 **Summer Birding in UBNA**, 7:30 a.m., CUH
- 19 Cascade Cactus & Succulent Soc., 2 p.m., CUH
- 21 Rose Society, 7:30 p.m., CUH
- 22 **Fall Garden Care**, 7 p.m., CUH
- 23 **Raising Chickens in the City**, 7 p.m., CUH
- 27 Bonsai Association, 7:30 p.m., CUH
- 28 **Salmon-Friendly Gardening**, 7 p.m., CUH



registration

FOR CLASSES AND PROGRAMS

To Register: Please complete and return the registration form, along with your payment to the Center for Urban Horticulture. You may also register by phone using Visa or MasterCard, 206-685-8033.

Refunds: Requests for refunds on events not attended must be made in advance in writing, by phone, fax, or in person. Requests received fewer than 7 days from the first class meeting have a 25% handling fee deducted. No refunds can be made after the first class meeting. If a program is cancelled for any reason, a full refund will be made to all enrollees. Refunds may take four weeks to process.

Returned Checks: A \$25 service fee will be charged for returned checks.

Special Needs: To request disability accommodation, please contact the Disability Services Office at least ten days in advance of an event: 206-543-6450 (voice); 206-543-6452 (TTY); or by e-mail at dso@u.washington.edu.

Class Locations and Parking: Program locations are listed with each program description. The Graham Visitors Center at Washington Park Arboretum is located at 2300 Arboretum Drive East. Douglas Classroom, NHS Hall and the other meeting facilities at Union Bay are located at 3501 N.E. 41st Street. Prepaid parking is located adjacent to the buildings.

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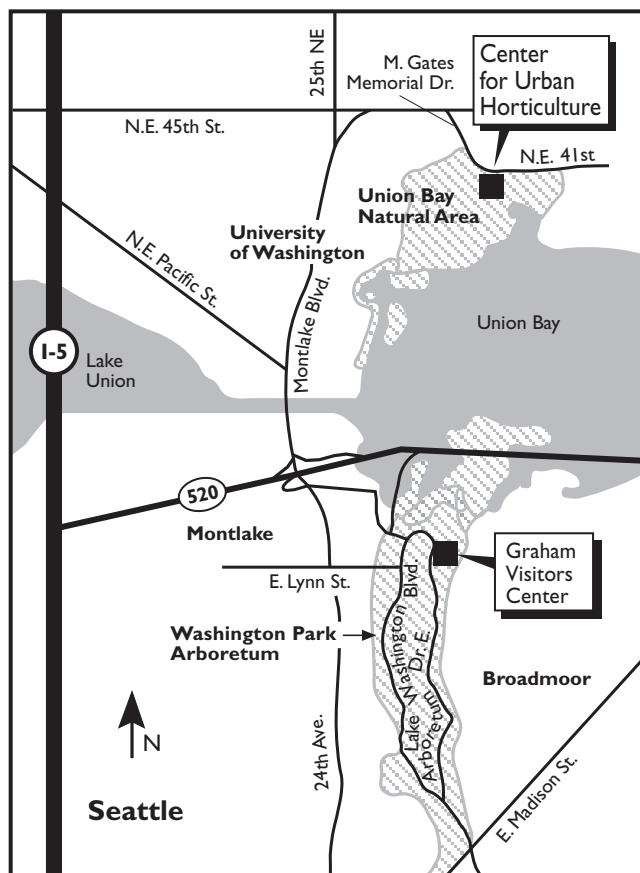
Center for Urban Horticulture

Union Bay Campus

3501 NE 41st Street
Box 354115
Seattle, WA 98195-4115
206-543-8616 (phone)
206-685-2692 (fax)
www.urbanhort.org

Washington Park Arboretum

2300 Arboretum Drive East
Box 358010
Seattle, WA 98195-8010
206-543-8800 (phone)
206-616-2871 (fax)
www.wparboretum.org





REGISTRATION FORM
 CENTER FOR URBAN HORTICULTURE SUMMER 2004



PROGRAM	FEE	AF MEMBER	# PEOPLE	TOTAL FEE
HORTICULTURE PROGRAMS				
Neighborhood Plant Walk-Streetside Gardens, July 10	\$30	\$28		
Western Washington Wine Tasting and Lecture, August 5	\$35	\$35		
Exploring the Arboretum by Canoe, August 21	\$40	\$40		
Mosaic Garden Art Workshop, August 28	\$70	\$70		
Plant Propagation - Cuttings, September 8	\$35	\$35		
Finding those Elusive Plants, September 9	\$10	\$10		
Summer Birding in UBNA, September 18	\$25	\$22		
PRACTICAL GARDENING LECTURES				
Fall Garden Care, September 22	\$10	\$10		
Raising Chickens in the City, September 23	\$10	\$10		
Salmon-Friendly Gardening, September 28	\$10	\$10		

TOTAL FEE \$

PAYMENT

Check (payable to *University of Washington*)
 Visa
 MasterCard

CREDIT CARD NUMBER

EXPIRATION DATE

NAME ON CARD

GENERAL INFORMATION

NAME

ADDRESS

CITY

STATE

ZIP

DAY PHONE

EVENING PHONE

FAX

EMAIL

Mail payment and registration to:

Urban Horticulture Courses
 University of Washington
 Box 354115
 Seattle, WA 98195-4115

You may also register in person at:

Union Bay campus
 3501 NE 41st Street
 Mon.–Fri., 8:30 a.m. to 5:00 p.m. or
 phone 206-685-8033

**Registrations are filled in the
 order received. Enrollment is
 limited. Classes fill rapidly, so
 register early.**

director's notes

Spring Quarter and its associated chaos is soon ending, the building moves closer and closer to completion, the new director for the Center will shortly be named and the new manager for the Elisabeth C. Miller Library will be selected.

In addition, six projects are under way at the Washington Park Arboretum. Two, the restoration of Duck Bay and the Pinetum Collection, are nearing completion. Four others are just beginning: Mainline Irrigation, Surveying of the South End, the Madrona Terrace Project, and the Wayfinding and Interpretation Master Plan for the entire Washington Park Arboretum.

These last four projects represent the outcome of a wonderful and fruitful relationship between the three partners, UW, City of Seattle Parks and Recreation Department and the Arboretum Foundation, over the last two years. All of these activities mean real visible changes at both the Center for Urban Horticulture and the Washington Park Arboretum.

TOM HINCKLEY, DIRECTOR, CENTER FOR URBAN HORTICULTURE

UNIVERSITY OF WASHINGTON CENTER FOR URBAN HORTICULTURE

The CUH mission is "to apply horticulture to natural and human-altered landscapes to sustain natural resources and the human spirit."

- Continuing and Public Education
- Douglas Research Conservatory
- Elisabeth C. Miller Library
- Otis Douglas Hyde Herbarium
- Undergraduate and Graduate Education
- Union Bay Gardens and Natural Area
- Rare Plant Care and Conservation
- Sustainable Community Landscapes
- Washington Park Arboretum

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URBAN HORTICULTURE NEWSLETTER, VOL. 21, NO. 3

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Sue Nicol, Outreach Coordinator
Jean Robins, Program Coordinator
Sandy Kirchner, Assistant Outreach Coordinator
Chris Berry, Education Coordinator (Youth & Community Outreach)
Shawna Zuege, Arboretum Education Program Assistant
Lisa Sanphillippo, Arboretum Education Program Assistant

CUH/WPA Building & Rentals Management Staff:

Becky Johnson, CUH Facilities Manager
Ray Larson, CUH Facilities Coordinator
Brett Mercier, WPA Building Services Coordinator



CENTER *for* **URBAN HORTICULTURE**

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