

HORTICULTURE

UNIVERSITY OF WASHINGTON

COLLEGE OF FOREST RESOURCES

WINTER 2002

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Dutch Elm Disease is Here

NOLAN RUNDQUIST, CITY OF SEATTLE ARBORIST

Symptoms of Dutch Elm Disease (DED) have recently been observed on a small number of elms in the Puget Sound region. An estimated 4000 susceptible elms grow in Seattle, and the disease has the potential to destroy 18% of the city's large tree population. American elms are the most susceptible, although all elm species are

vulnerable. We hope that by attacking the problem early, widespread damage can be prevented.

History: DED is caused by a fungus that was introduced into Europe in 1919 from Asia and was first described by a Dutch biologist, thus the name Dutch Elm Disease. After entering the United States in the 1920's, the disease rapidly spread throughout the native and urban elm populations throughout North America. A more aggressive fungus has since replaced the original strain and is responsible for the disease damage that is seen today.

Symptoms: Symptoms of DED include small, sparse leaves in spring, usually at the top of the tree, followed by a sudden wilting of leaves in early summer. Leaves curl and turn brown and in late summer may fall prematurely. Infected branches often show a brown stain on the wood, seen by peeling back the bark. At first, individual branches may be affected although symptoms may spread rapidly throughout the tree. Young, vigorously growing trees may be killed in several weeks whereas larger, slower growing trees can take one to two years.

Source of disease: Elm bark beetles are the vector for disease transmission. The beetles lay eggs underneath the bark of a stressed, dead or dying tree. When the mature beetles emerge, they carry with them the spores of the DED fungus. As the beetles move to other elms to feed or spend the winter, infection is spread to healthy trees. Infection can also spread through the root systems of adjacent trees if the roots are growing together.

(continued on page 5)



CENTER for URBAN HORTICULTURE

SPECIAL EVENTS

CUH Healthy Garden Symposium

at the Northwest Flower and Garden Show

Friday, February 8, 9:45 a.m.

This special series of lectures on healthy gardening features faculty, staff, students, and alumni of CUH, all experts in their fields.

GARDENING IN THIS PLACE. Sue Nicol, Outreach Coordinator, will speak on how knowledge of a site's natural history will help your garden grow.

WHEN GOOD PLANTS GO BAD. Dr. Sarah Reichard, Assistant Professor of Conservation Biology, will speak on identifying and managing those plants you love but can't control.

BEST BUGS FOR A HEALTHY GARDEN. Sharon Collman, EPA Region 10 IPM Coordinator and CUH graduate student, will speak on beneficial insects that are important for a healthy garden and how to attract them to your garden.

PRACTICES THAT LEAD TO A HEALTHY LANDSCAPE. Dr. Linda Chalker-Scott, Associate Professor of Landscape Science and Plant Management, will speak on good cultural practices that will ensure a long and healthy life.

BEST PLANTS FOR A HEALTHY GARDEN. Dan Hinkley, plant explorer and CUH alumnus, will speak on great plants to grow in your garden.

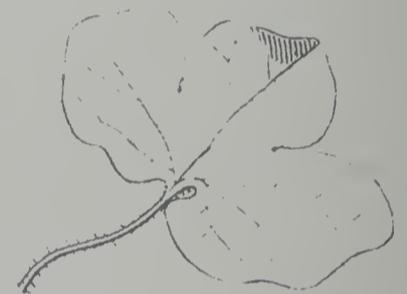
2

The Genus Hepatica: A Star is Born

Speaker: Dan Hinkley

Wednesday, February 13, 7 pm

NHS Hall, CUH



From a widely distributed but vastly underused genus of woodland plants in North America, to rarely seen Chinese species, as well as a group of plants that has achieved cult status in Japan, all eyes are turning to the Hepaticas as one of the new up and coming waves among the horticultural cognescenti across the globe. Dan Hinkley will share his observations of this group of plants he has observed in Japan, Korea, China and North America, and discuss their propagation, cultivation and caveats. Fee is \$12. Pre-registration required. For more information, phone 206-685-8033.

The Hellebore Garden Open

Saturday, February 16

Heronswood Nursery, Kingston, WA

Heronswood Nursery will open to the public at 10 a.m. on Saturday February 16, with an admission price of \$7.50 per person, to benefit the Elisabeth C. Miller Library. Dan Hinkley will speak that day, docents will assist as you wander through the winter gardens of Heronswood, and hellebores from the nursery breeding program will be for sale. For more information, phone 360-297-4172 or e-mail to heronswood@silverlink.net.

When Pruning Hurts Plants

LINDA CHALKER-SCOTT, PhD, ASSOCIATE PROFESSOR, CUH

Gardeners are often advised to prune back the crown of transplanted trees and shrubs by as much as 50% to reduce transpiration and compensate for lost root systems. Internet web sites, even the usually reliable “.edu” sites, continue to spread this myth. Research performed under landscape conditions shows that pruning when transplanting is not necessarily beneficial, and may even harm the tree. There may be short-term benefits in balancing the root and shoot mass, but the long-term effects are generally negative.

When growing tips are removed from most plants, the plant responds by putting its resources into shoot growth at the expense of root growth. So although gardeners may see the top part growing, they are unaware that root growth is inhibited. In contrast, plants left intact after transplanting may appear to be dormant but are actually putting resources into root growth. Shoot growth resumes after roots are established. Top-pruning also removes a significant amount of biomass which decreases photosynthesis. So the plants are hit with a “double whammy”: reduced photosynthesis and growth of shoots instead of roots. It’s no surprise that roots have a hard time growing after the top is pruned. Research assistance for this article was provided by Greg Hostetler, UW student. Contact Dr. Linda Chalker-Scott at lindacs@u.washington.edu for references. Reprinted with permission of B & B.

CARING FOR NEWLY TRANSPLANTED TREES AND SHRUBS:

- Don’t top-prune landscape plants when transplanting. Water well afterwards.
- Only prune broken, dead or diseased branches from newly transplanted trees or shrubs.
- If pruning is warranted, use thinning rather than heading cuts.

3

Assessing Washington’s Urban Forests

KATHY WOLF, RESEARCH ASSISTANT PROFESSOR, CUH

CUH graduate students and faculty are assessing the urban forest in Washington. This project will help streamline urban forestry across the state. Currently, individuals who plant, maintain and protect trees work independently and “reinvent the wheel.” The results should help to create a unified approach that will impact policy decisions pertaining to resource allocation and tree ordinances.

The study is being performed in three phases: 1)Assessing tree inventory databases, 2)Reviewing management practices used in Washington cities and towns, and 3)Assessing the urban forestry policies of Washington municipalities.

Graduate student Robert Corletta started phase one by collecting data from 27 Washington municipalities about tree inventory procedures. Tree inventory systems are city-wide databases, used to monitor the health and condition of urban trees. His results will help communities to more efficiently set up and use the inventories.

Phase two is being carried out by graduate student Noel Studer who is assessing the management practices being used by Washington’s cities and towns, including professional staffing, budgets, work schedules and tree care practices. Phase three will involve collecting and analyzing the policy and ordinances of Washington municipalities regarding trees and forests.

Faculty members Al Wagar, John Wott and Kathy Wolf are participating in the study which is sponsored by the US Forest Service through the Department of Natural Resource’s “Urban and Community Forestry Program.”

News from CUH and WPA



Miller Library Reopens in Issacson Hall

An interim library will open to the public on December 10, in a quarter of its original space, but providing most of the services as before the fire. The Miller Library has been closed since May 21 as staff has worked in other libraries on campus and, along with volunteers, cleaned, re-labelled and re-jacketed library books. Now the collection has been freeze-dried, treated with ozone and cleaned. A majority of the books and files are ready again to fill library shelves.

The Isaacson Hall classroom, just off the CUH courtyard, will house the reading room with a selection of journals, reference books, and lending books. Reference help will be available, the Plant Answer Line will operate, and two computer terminals will be available for public use.

The downstairs of Isaacson Hall will house part of the rest of the collection, work space for library staff, and the Hyde Herbarium. Due to limited space, at least half the library's book collection will continue to be housed at Sandpoint until the new Merrill Hall is built. Library staff will take requests and pick books up at Sandpoint twice each week. The old and rare books remain in Allen Library on the UW upper campus until we again have a safe and secure facility for them at CUH. Thanks to the Northwest Horticultural Society for sharing office space with library staff. Their generosity has allowed a base of operations that has helped get the library going again.

Starting December 10, the library will be open its regular, pre-fire schedule: 9 a.m. to 5 p.m. Tuesdays through Fridays, 9 a.m. to 8 p.m. on Mondays, and 9 a.m. to 3 p.m. on Saturdays.

We appreciate your patience and we look forward to getting back in business again. Please bring in all those questions you've been saving up.

CUH Facility News

Meeting space is tighter than normal due to the library's move to Isaacson Classroom. Anyone requesting rental space should place their reservations as early as possible. Facilities managers Ray Larson and Becky Johnson continue to serve the horticultural and local community and will try to accommodate everyone who submits a request.

Graduate students Steve Van Hoven, Sean Dugan and Robert Corletta have been hired part time to assist with facilities management. You may bump into one of these fellows at either the reception desk or in the classrooms, as they are setting up or taking down equipment.

Five trailers are now located on CUH grounds. While Merrill Hall is rebuilt, these are providing office space for staff and faculty, student desk and computer space, as well as laboratory facilities. Ensuring that trailers have computer hook-ups, telephone and electrical connections and heating/ventilation systems has been no small task, and many individuals are to be commended for their help.

Next time you visit CUH, be sure to admire the containers placed around McVay Courtyard and the Soest Garden. The containers were bought with a generous donation by Steve Burgess, UW professor and neighbor. Valerie Easton and Ray Larson recently redesigned the plantings for winter interest.

Eagle Scout Completes Project

Eric Bowley completed an Eagle Scout Project in the Washington Park Arboretum. Eric chose to improve the public image of the Puget Sound Beekeepers Exhibit, housed behind the greenhouses. The entire area has been fenced with fence posts and yellow rope. A series of signs will be installed on the posts so that visitors can learn more about bees. They will also be used as a teaching tool for the Saplings School program. The area will also be marked with two entrance marquees. The bees are the source of the famous Arboretum honey which is sold in the gift shop.



The Plant Answer Line will open from 9 a.m. until 5 p.m. Monday through Friday beginning December 10. Call UW PLANT, 206-897-5268, or e-mail your question to:
hortlib@u.washington.edu



Graduate Students Earn Degrees

Perry Gayaldo, PhD. Perry's research was concerned with the restoration of coastal marine habitats, eelgrass restoration in particular. He characterized the marine sediments and shoreline conditions where eelgrass grows and correlated its growth to these conditions. He also investigated how oxygen availability is related to growth of eelgrass. Finally, Perry performed a case study for the Port of Anacortes. He increased eelgrass habitat by removing submarine debris and sections of dock, installing reflective panels underneath a dock and selectively transplanting eelgrass.

Stephen Brueggerhoff, M.F.R. Steve surveyed visitors to the UW Medicinal Garden. His survey showed that visitors to the garden use it primarily for its restorative or stress relief aspects. They also use it for an informal learning, as opposed to a formal teaching, experience.

Emily Griswold, M.S. Emily researched the origin and development of ecogeographic displays, or gardens that mimic natural plant communities. She found that the origin of this display concept was closely tied to the emergence of the science of plant ecology and to the development of dioramas in natural history museums.

Robert Corletta, M.F.R. Robert collected data regarding tree inventory procedures from Washington state municipalities. His results will be used to create a "toolbox" for communities to develop or improve their tree inventories.

Michelle Connor, M.S. Michelle's research focused on stands of our native spiraea, *Spiraea douglasii*, in wetlands of the lowland Puget Sound region. She examined how the spiraea is able to outcompete other plants, what conditions favors its spread, and how it should be managed in natural systems and restoration sites.

Dutch Elm Disease (continued from page 1)

Prevention and Control: To keep a healthy elm from becoming susceptible to DED, maintain the tree in prime condition through proper tree care. This includes pruning all dead wood during the dormant season (between October 1 and March 30), along with regular watering and mulching. Healthy trees can be injected during the summer with the fungicide 'Arbotect'. Although injections are moderately expensive and must be repeated every few years, they can be effective even if the tree exhibits early symptoms.

If a tree on your property is diagnosed with DED, it should be removed within 2 weeks. Pruning out diseased areas will have no effect unless detected in the very early stages. Be sure to remove all dead and diseased elm trees and firewood. Only store the tree for firewood if the bark has been removed or beetles will be provided with habitat for reproducing.

Further information and diagnosis: Assistance is available to property owners who require information about identifying elms, DED symptoms, and prevention and management methods. For trees within the City of Seattle, call the City Arborist's Office at 206-684-7649 or 206-615-0957. Outside of Seattle, call a private arborist or a local municipal tree expert. If you need a company to spray, prune or inject your elm trees, look in the phone book under Tree Service. Ensure that the company you select employs certified and insured arborists and tree pruners. Companies which spray or inject trees must hold a pesticide applicator's license.

For more detailed information on Dutch Elm Disease, see the Winter 2002 edition of the *Washington Park Arboretum Bulletin*.

Arboretum Foundation

For more information on Arboretum Foundation events, please call the events hotline at 206-726-1954 or visit the website at www.arboretumfoundation.org

Preview Party at Flower Show to Benefit Foundation

Be the first to see the fantastic display gardens of the Northwest Flower and Garden Show, expanded for 2002. This benefit for the Washington Park Arboretum will be held Tuesday, February 5 at 6:30 p.m. in the Washington State Convention and Trade Center. Fine foods, beverages and silent auction. General admission tickets are \$90 for Arboretum Foundation members and \$125 for non-members. Patron tickets are \$250 and Benefactor tickets are \$500. These include greetings by a garden celebrity, private tours of the display gardens, and a special dinner. Call 206-325-4510.

Used Book Sale

A benefit for Washington Park Arboretum will be held Saturday, March 2, from 10 a.m. to 5 p.m. Many longtime shoppers at this sale call it the Arbor-Read-'em! Thousands of used books, some rare or vintage, on an unlimited number of topics. Lots of books for gardeners. No admission charge.

Grant for WPA Native Plantings

The Arboretum Foundation is pleased to announce that King County has awarded the Foundation a \$10,000 Urban Reforestation and Habitat Restoration grant. The grant will fund a project that supports the ongoing efforts of the Washington Park Arboretum to control invasive plants in a new, proactive way. Members of the Native Plant Study Group working with Arboretum Horticulturist Christina Pfeiffer will implement the project.

Greenhouse Plant Sales

Sales at the Arboretum Foundation's Pat Calvert Greenhouse continue year-round. Some plants are propagated from the Arboretum collection. Every Tuesday, 10 a.m. to noon, behind the Graham Visitors Center.

Interested in Volunteering?

Help is needed for special events, the Foundation office, education programs, and special projects around the Arboretum. Call Elaine Anderson at 206-325-4510.

Tidbits

Holiday Gift Idea

Searching for that perfect holiday gift? Give a CUH Gift Certificate, good towards registration for a class, talk, or tour. Simply call 206-685-8033 and order over the phone for the gardener in your life who wants to keep learning.

A Great Reason to Reduce Pesticide Use

Traces of garden pesticides have been found in the urine of a number of Seattle-area preschool kids. All but one of the 110 children tested had minute amounts in their samples. Researchers noted that children whose parents used pesticides in their gardens had a significantly higher concentration. The study was conducted in 1998 by University of Washington researchers and published in the March edition of *Environmental Health Perspectives*.

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Is Kudzu Heading our Way?

Kudzu was discovered in Oregon again this summer. This detection and two last year have Oregon Dept. of Agriculture staff wondering if there may be more kudzu plants elsewhere in the state. The newest site is in Portland within one mile of a kudzu outbreak discovered last year. Last year's kudzu discovery in Aurora was the first time the weed had been detected west of Texas. For more information, phone 503-986-4621. Reprinted with permission of GMPRO GreEn-MAIL.

volunteer

NEWS AND OPPORTUNITIES



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CUH Reception Desk Volunteers Needed:

Interact with visitors, faculty, staff, and students while helping out with phone calls and answering general questions. Your help will be greatly appreciated, particularly for shifts on either Monday or Friday, either a half or whole day. Call Ray Larson at 206-616-9113 for more information.

Hands-On Work in the Container

Nursery: Volunteers needed to help in the container nursery with work involving both woody ornamental and native plants. Activities such as transplanting, labeling, fertilizing and other maintenance tasks are ongoing. Special projects involving propagation or plant evaluation are performed seasonally. Call Barbara Selemon at 206-685-2613 for more information.

Tuesdays in the Garden: Work with the Arboretum staff every Tuesday from 12:30 to 3:30 p.m. to help provide essential garden care. Tasks vary with the season. Enjoy and help tend to the wonderful plants in the Arboretum! Call Chris Pfeiffer at 206-328-4182 for information and to sign up.

Volunteer Groups needed at the Arboretum:

Community service groups are a vital source of support in caring for Arboretum plant collections and managing invasive weed problems. Many hands make light work. Arboretum staff lead groups at a ratio of one staff person per 15 to 20 volunteers. Work parties can be scheduled throughout the year. Call Chris Pfeiffer at 206-328-4182 for more information or to sign up.

WPA Information Desk Volunteers

Needed: Greet visitors, share your enthusiasm, answer questions, and interact with staff and other volunteers in the stimulating environment at the Arboretum. Shift times are either half or whole days, once a week. Call the Building Manager at 206-543-8800.

Work with Youth in Garden Sites: Seattle Youth Garden Works is currently in need of caring adult volunteers to work with youth in their University District garden site. Call the SYGW office at 206-525-1213, extension 3133.

Rare Care Monitors Needed:

Monitor rare plants for the 2002 field season, assist in the office, or maintain rare plants in the CUH nursery. Fill out the application on the Rare Care web site at www.depts.washington.edu/rarecare to sign up to monitor. If interested in working in the office or maintaining plants at CUH, phone Program Coordinator Laura Zybas at 206-616-0780 or e-mail her at lzybas@u.washington.edu.

classes AND PROGRAMS

Best Trees and Shrubs for Early Winter Interest

DATE AND TIME: Saturday, January 19, 9 to noon.
INSTRUCTOR: Ray Larson, CUH Facilities Manager and Grad Student
LOCATION: Graham Visitors Center, WPA
FEE: \$25 general public; \$22 Arboretum Foundation Members; pre-registration required

Learn about trees and shrubs that are particularly beautiful during January. Horticulturist Ray Larson will introduce students to the beautiful trees and shrubs that grace our winter gardens.

Woodland Gardening

DATE AND TIME: Wednesday, January 23, 7 to 9 p.m.
INSTRUCTOR: Richie Steffen, Coordinator of Horticulture at the Miller Botanical Garden
LOCATION: Douglas Classroom, CUH
FEE: \$25 general public; \$22 Arboretum Foundation Members; pre-registration required

Learn how to design and plant an idyllic woodland garden. This class will cover plant selection, combinations and multi-seasonal interest. Slides of the Miller Garden with its dark, heavy shade and dry locations will illustrate how beautiful gardens can be created from challenging conditions.

Restoring Your Old Fruit Tree

DATE AND TIME: Saturday, January 26, 9 a.m. to noon
INSTRUCTOR: Chuck Holland, President, Western Washington Fruit Research Foundation
LOCATION: Douglas Classroom, CUH
FEE: \$30 general public; \$27 Arboretum Foundation Members; pre-registration required

Return your old neglected fruit trees to their original luster while increasing your fruit harvest and improving disease resistance. Chuck Holland, hort instructor at Edmonds C.C., will teach the proper technique for pruning mature plum, apple and pear trees. The first hour will cover pruning fundamentals such as proper tools and technique. Next you will head out to a nearby site and learn firsthand about fruit tree restoration. Bring pruning tools to class.

How Glaciers Made Our Soils

DATE AND TIME: Tuesday, January 29, 7 to 9 p.m.
INSTRUCTOR: Rob Harrison, Professor, Forest Soil Science
LOCATION: Douglas Classroom, CUH
FEE: \$25 general public; \$22 Arboretum Foundation Members; pre-registration required

UW Soil Scientist Rob Harrison will discuss the soils and topography of the Puget Sound area and explain how receding glaciers from the last ice age laid down the debris that became our soils. He will also explain how local lake beds were formed and what the terms deposition, movement, sorting and hydrologic dead-ends mean. You will come away with an understanding of how Seattle's lakes, ridges and hills were created and learn simple techniques for evaluating the soil in your garden. Note: This class was originally offered during Summer Quarter and cancelled following the Sept. 11 tragedy.

Birdwatching in Union Bay Natural Area

DATE AND TIME: *Saturday, February 23, 8 to 11 a.m.*
INSTRUCTOR: *Brian Bell, Master Birder, Seattle Audubon Society*
LOCATION: *Meet in McVay Courtyard, CUH*
FEE: *\$15; pre-registration required*

The Union Bay Natural Area is rich in habitat and bird life. Seattle Audubon Society Master Birder Brian Bell will introduce you to its avian inhabitants and their natural histories. Please bring binoculars or a spotting scope and dress warmly.

Botanical Illustration - Drawing

DATES AND TIMES: *5-part series: Wednesdays, February 27, March 6, 13, 20, and 27 from 7 to 9 p.m.*
INSTRUCTOR: *Louise Smith, Botanical Illustrator*
LOCATION: *Douglas Classroom, CUH*
FEE: *\$100; pre-registration required*

Louise Smith, noted botanical illustrator, will introduce students to drawing and rendering botanical subjects in pencil. Course includes homework. Students should bring drawing paper, pencil and eraser to the first class where a more complete materials list will be provided. Some supplies are included as part of the course fee.

This course is designed as a self-contained unit or as an introduction to the Botanical Watercolor class to be offered during Spring Quarter.

Best Trees and Shrubs for Late Winter Interest

DATE AND TIME: *Saturday, March 2, 1 to 4 p.m.*
INSTRUCTOR: *Bess Bronstein, Horticulture Instructor and Consultant*
LOCATION: *Graham Visitors Center, WPA*
FEE: *\$25 general public; \$22 Arboretum Foundation Members; pre-registration required*

Learn about trees and shrubs that are particularly beautiful during the late winter by walking through the Arboretum with a plant expert. Bess Bronstein will introduce students to those plants that put on their best show when many plants are still dormant.

Gardening on the Internet

DATE AND TIME: *Tuesday, March 5, 7 to 8:30 p.m.*
INSTRUCTOR: *Brian Thompson, Technical Services Librarian, Miller Horticultural Library*
LOCATION: *Douglas Classroom, CUH*
FEE: *\$25 general public; \$22 Arboretum Foundation Members; pre-registration required*

A wealth of gardening information is at your fingertips...if only you can find it! The Internet can make a gardener's life more fun and more interesting, as Brian Thompson will demonstrate in this class which is geared for beginning "surfers". Brian is the web developer for the Miller Library at CUH. He will take you to an array of gardening sites that you may never have found on your own. You'll also learn how to choose when to use the Internet as a resource and when to pull out the reliable Sunset Western Garden Book.

Basic Pruning

DATES AND TIMES: *Two-part course: Thursday March 7, 7 to 9 p.m. and Saturday, March 9, 9 a.m. to noon*
INSTRUCTOR: *Cass Turnbull, Certified Arborist*
LOCATION: *Douglas Classroom, CUH, and a student's garden*
FEE: *\$35 general public; \$32 Arboretum Foundation Members; pre-registration required*

Correct pruning practices are a must for maintaining the health and beauty of your small trees and shrubs. Cass Turnbull, Certified Arborist and founder of Plant Amnesty, will teach this introductory pruning class. The evening lecture will cover tools, proper techniques and seasonal timing for various ornamental shrubs and small trees. The Saturday morning session will be held at a student's garden and will demonstrate the practices covered in the lecture. Please dress warmly for the Saturday session.



Introduction to Digital Photography

DATES AND TIMES: 2-part course: Saturdays, March 16 and 23, 10 a.m. to noon
INSTRUCTOR: Paul Nechols, Commercial Photographer
LOCATION: Douglas Classroom, CUH
FEE: \$35 general public; \$32 Arboretum Foundation Members; pre-registration required

Interested in purchasing a digital camera, or already have one and can't quite figure it out? Paul Nechols, a commercial photographer who went digital 5+ years ago, will walk you through the basics of digital photography. Learn how it differs from traditional photography and where it's the same. Learn how to choose a model that suits your needs and use the camera's many menu options. If you have already purchased a camera, bring it to class, and state manufacturer/model when registering. The second class session will meet at the Arboretum Graham Visitors Center.

Introduction to Adobe Photoshop

DATE AND TIME: Saturday, March 30, 9 a.m. to noon
INSTRUCTOR: Paul Nechols, Commercial Photographer
LOCATION: Douglas Classroom, CUH
FEE: \$25 general public; \$22 Arboretum Foundation Members; pre-registration required

Now that you have taken all those great plant photos, what can you do with them? This follow-up course to the Introduction to Digital Photography class will teach you how to save and download your photos, and how to work with them on your computer using Adobe Photoshop Elements. This program is geared toward beginners in digital photography, but the skills are transferable to other programs. Topics will include sizing and touching up photos, as well as saving and optimizing them for e-mail, web and print.

practical gardening lectures

These lectures and demonstrations for beginning gardeners are planned jointly with the WSU Cooperative Extension Community Horticulture Program. They are presented by Cooperative Extension staff and experienced WSU Master Gardeners.

Easy-Care Roses

DATE AND TIME: Thursday, February 21, 7 to 8:30 p.m.
INSTRUCTOR: Mary Robson, Area Extension Agent
LOCATION: Douglas Classroom, CUH
FEE: \$10; pre-registration required

Learn how to grow the perfect rose bush in your garden minus the fuss. Topics include choosing a rose that is suited to the northwest, selecting an appropriate garden site, and caring for your rose bush. Proper pruning techniques will also be covered.

Kitchen Gardening

DATE AND TIME: Thursday, February 28, 7 to 8:30 p.m.
INSTRUCTOR: Sally Anne Sadler, Urban Food Gardeners Program Coordinator
LOCATION: Douglas Classroom, CUH
FEE: \$10; pre-registration required

Create the ideal kitchen garden complete with vegetables, herbs and ornamentals. The course will emphasize heirloom varieties of plants and how to best combine them for a healthy, satisfying garden.

youth and family programs

For more information or to schedule any of the following programs, please contact the Arboretum Education Office, Monday through Friday, 8 a.m. to 5 p.m. at 206-543-8801.

Arboretum Family Packs

Investigate the wonders of the Arboretum using the self-guided pack program. Arboretum packs come with easy-to-follow activities, maps, field guides, games and more. Family Packs are designed for groups of five or fewer. They are available year-round from 10 a.m. to 3 p.m. at the Graham Visitors Center Front Desk. A two-hour rental fee is \$5. FREE to Arboretum Foundation Members and Arboretum Guides.

FAMILY TREE PACK (Grades K-3) Investigate the wonders of a living museum. Focus on leaves, buds, flowers, fruit and bark. Learn about pollination by doing it yourself!

WETLAND WONDERS (Grades K-3) Take a safari to Foster and Marsh Islands along the Waterfront Trail. Go on a wetland scavenger hunt, collect aquatic insects and play games that help to demonstrate why wetlands are important. Pack comes with binoculars!

Self-Guided Learning Opportunities

Use the Arboretum as your outdoor classroom. This 230 acre, centrally located urban forest offers a wealth of study materials and experimental opportunities. Education Department staff will assist you in planning your visit by offering information on specific subject areas and plant collections free of charge. We request that all self-guided tours first check in by calling 206-543-8801 so that we can help to suit your group's needs.

Arboretum Explorer Packs

Great for scouts, camps, daycare and other youth groups. Lead your own group on an exploration of this 230-acre living museum. Explorer Packs are filled with fun activities, games, maps and equipment for investigating. Explorer Packs are available year-round from 10 a.m. to 3 p.m. with a required two-week pre-registration. A two-hour rental fee is \$15. Explorer Packs are designed for 15 kids working individually or for 30 kids working in pairs.

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 Investigate the amazing critters and plants that make the wetland their home. This pack includes dip nets, aquaria, field guides, scavenger hunts and more.

Saplings School Programs

Explore the Arboretum with trained guides! School tours are Monday through Friday, 10 to 11:30 am. The cost is \$2.50 per child (chaperones are free). Two adult chaperones per 15 children are required. Scholarships are available. All of Saplings' curricula are aligned with the state's Essential Academic Learning Requirements. Please remember to book your reservations at least three weeks in advance.

Grades K-2: Discover Plants

Younger students gain exposure to the wonderful world of plants by using characteristics to categorize living things. Students will compare and contrast similarities between plants and people as they learn what each needs to grow and be healthy.



**Saplings School
Programs, continued...**

Grades 3-8: Native Plants & People

What is a native plant? Students will learn to identify several northwest native plants. Discover the historical importance of native plants to the Coast Salish people. Students will learn how native plants were used in daily life through discussion, by using hands-on artifacts and role-playing activities.

Grades K-3: Wetland Ecology Walk, Focus on Habitats

Explore the flora and fauna on Foster Island as you learn about who lives in the Arboretum's unique urban wetland. Learn first hand about various habitats around the Arboretum.

Grades 4-8: Wetland Ecology Walk, Focus on Ecosystems

Investigate the complex world of a wetland ecosystem. Foster Island provides a unique opportunity for students to study an urban wetland up close and discover the importance and functions of wetlands.



arboretum guided tours

Enjoy the seasonal splendor of the Arboretum. Take a fragrant walk along Azalea Way or marvel at the grand Magnolias. Tours are led by trained Arboretum guides and last from 60 to 90 minutes. Topics include plants of seasonal interest, Foster Island ecology, native plants, and ethnobotany. Tours are available year-round between 10 a.m. and 3 p.m., seven days a week. Fees are \$15 per group of 15. \$10 for Arboretum Foundation members. Call 206-543-8801 to reserve a guide; three weeks advance reservation required.

Weekend Walks at One

Weekend walks highlight areas of the Arboretum and collections with seasonal interest. Walks depart from Graham Visitors Center Saturdays and Sundays at 1 p.m. Call ahead to ensure a weekend tour, 206-543-8801.

events calendar

FOR WINTER 2002

JANUARY

- | | | | | | |
|----|--|----|--|----|---|
| 2 | WA Butterfly Assoc., 7 p.m., CUH | 15 | Rose Society, 7 p.m., CUH | 23 | Woodland Gardening, 7 p.m., CUH |
| 7 | Ornithological Society, 7 p.m., CUH
Iris Society, 7 p.m., CUH | 17 | Audubon Society, 6:30 p.m., CUH | 26 | Restoring Your Old Fruit Tree,
9 a.m., CUH |
| 8 | P.S. Mycological Society, 7:30 p.m., CUH | 19 | Best Trees & Shrubs for Early Winter
Interest, 9 a.m., WPA | 29 | How Glaciers Made our Soils, 7 p.m.,
CUH |
| 9 | NHS Lecture, 7:30 p.m., CUH | 20 | NW Perennial Alliance, 1 p.m., CUH
Cascade Cactus & Succulent Society,
2 p.m., CUH | | |
| 10 | Rock Garden Society, 7:30 p.m., CUH | | | | |
| 14 | Orchid Society, 7 p.m., CUH | 22 | Assoc. for Women in Hort, 6:30 p.m.,
CUH | | |

FEBRUARY

- | | | | | | |
|------|---|----|--|----|---|
| 4 | Ornithological Society, 7 p.m., CUH
Iris Society, 7 p.m., CUH | 13 | Hepatica Lecture, 7:00 p.m., CUH | 21 | Audubon Society, 6:30 p.m., CUH
Easy-Care Roses, 7 p.m., CUH |
| 6 | WA Butterfly Assoc., 7 p.m., CUH | 14 | Rock Garden Society, 7:30 p.m., CUH | 23 | Bird Watching in UBNA, 8 a.m., CUH |
| 6-10 | NW Flower & Garden Show | 16 | Hellebore Garden Open, 10 a.m.,
Heronswood Nursery | 25 | Bonsai Association, 7:30 p.m., CUH |
| 8 | CUH's Healthy Garden Symposium,
9:45 a.m., WA State Convention
Center | 17 | NW Perennial Alliance, 1 p.m., CUH
Cascade Cactus & Succulent Society,
2 p.m., CUH | 26 | Assoc. for Women in Hort, 6:30 p.m.,
CUH |
| 11 | Orchid Society, 7 p.m., CUH | 19 | Rose Society, 7 p.m., CUH | 27 | Botanical Illustration, Part 1, 7 p.m.,
CUH |
| 12 | P. S. Mycological Soc., 7:30 p.m., CUH | 20 | NHS Lecture, 7:30 p.m., CUH | 28 | Kitchen Gardening, 7 p.m., CUH |

MARCH

- | | | | | | |
|----|--|----|--|----|--|
| 2 | Best Trees & Shrubs for Late Winter
Interest, 1 p.m., WPA | 13 | Botanical Illustration, Part 3, 7 p.m.,
CUH
NHS Lecture, 7:30 p.m., CUH | 21 | Audubon Society, 6:30 p.m., CUH |
| 4 | Ornithological Society, 7 p.m., CUH
Iris Society, 7 p.m., CUH | 14 | Rock Garden Society, 7:30 p.m., CUH | 23 | Intro. to Digital Photography, Part 2,
10 a.m., WPA |
| 5 | Gardening on the Internet, 7 p.m.,
CUH | 16 | Intro. to Digital Photography, Part 1,
10 a.m., CUH | 25 | Bonsai Association, 7:30 p.m., CUH |
| 6 | Botanical Illustration, Part 2, 7 p.m.,
CUH
WA Butterfly Assoc., 7 p.m., CUH | 17 | NW Perennial Alliance, 1 p.m., CUH
Cascade Cactus and Succulent
Society, 2 p.m., CUH | 26 | Assoc. for Women in Hort, 6:30 p.m.,
CUH |
| 7 | Basic Pruning, Part 1, 7 p.m., CUH | 19 | Rose Society, 7 p.m., CUH | 27 | Botanical Illustration, Part 5, 7 p.m.,
CUH |
| 9 | Basic Pruning, Part 2, 9 a.m., Offsite | 20 | Botanical Illustration, Part 4, 7 p.m.,
CUH | 30 | NW Fuchsia Society Plant Sale,
9 a.m. to 2 p.m., CUH
Intro. to Adobe Photoshop, 9 a.m.,
CUH |
| 11 | Orchid Society, 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.

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: An \$18 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.

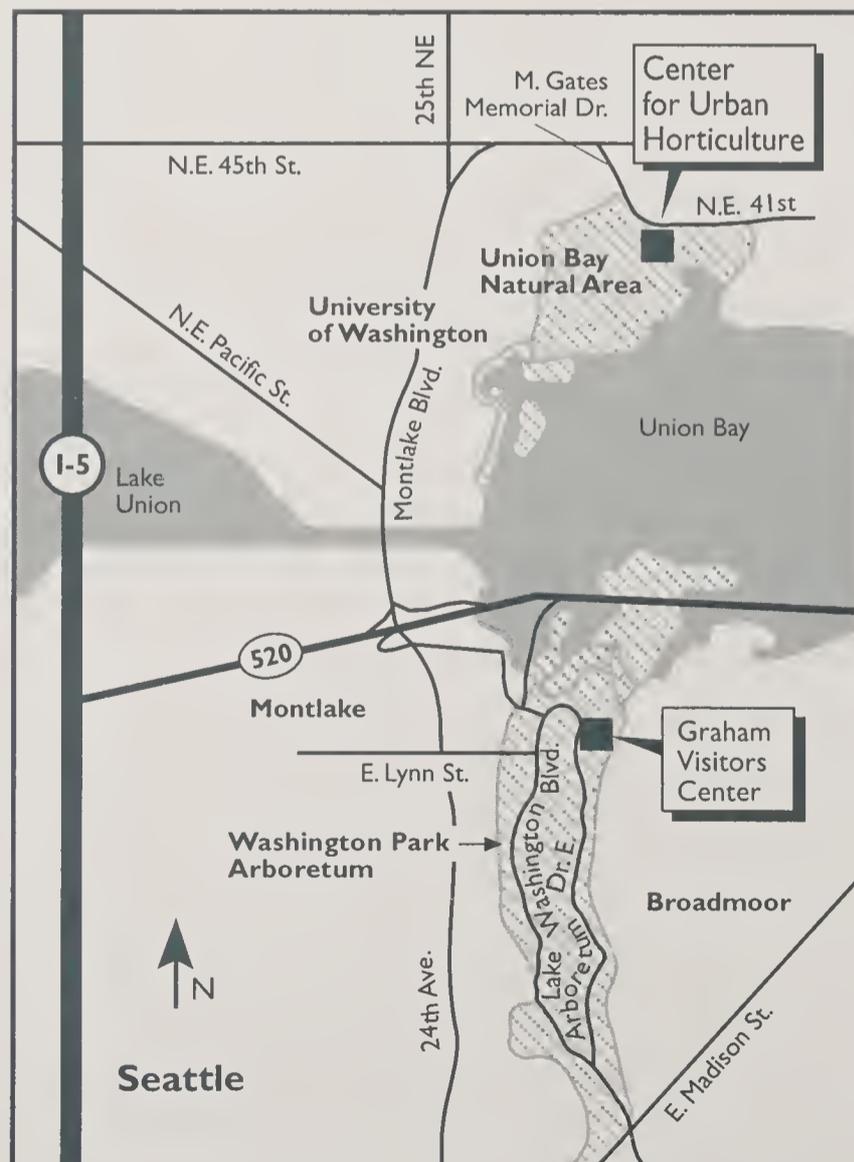
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Center for Urban Horticulture

3501 NE 41st Street
Box 354115
Seattle, WA 98195-4115
206-685-8033 (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)
206-543-8893 (fax)
www.wparboretum.org



PROGRAM	FEE	MEMBERS	# PEOPLE	TOTAL FEE
HORTICULTURE PROGRAMS AT CUH				
Best Trees & Shrubs for Early Winter Interest	\$25	\$22		
Woodland Gardening	\$25	\$22		
Restoring Your Old Fruit Tree	\$30	\$27		
How Glaciers Made Our Soils	\$25	\$22		
Bird Watching in Union Bay Natural Area	\$15			
Botanical Illustration - Drawing	\$100			
Best Trees & Shrubs for Late Winter Interest	\$25	\$22		
Gardening on the Internet	\$25	\$22		
Basic Pruning	\$35	\$32		
Intro to Digital Photography	\$35	\$32		
Intro to Adobe Photoshop	\$25	\$22		
PRACTICAL GARDENING LECTURES				
Easy-Care Roses	\$10			
Kitchen Gardening	\$10			
SPECIAL EVENT				
The Genus Hepatica: A Star is Born	\$12			

TOTAL FEE	\$
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PAYMENT

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

CREDIT CARD NUMBER

EXPIRATION DATE

NAME ON CARD

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., 8:00 a.m. to 5:00 p.m.

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

GENERAL INFORMATION

NAME

ADDRESS

CITY

STATE

ZIP

DAY PHONE

EVENING PHONE

FAX

EMAIL



director's notes

We now have \$4,103,000 and an architectural firm, The Miller/Hull Partnership, to help us rebuild Merrill Hall. We are excited about the pre-design phase of the project with many hours devoted to every detail of the "new" building.

Will a new building be more inviting to the public? How will the outreach and programmatic elements of the Center work together? Can the building be a showcase for sustainable design? Will the building integrate with the site in exciting ways? Wrestling with these issues has been challenging but enjoyable these last few months.

At the same time, we have also begun to talk about implementing the newly-approved master plan for the Arboretum, conduct the business of the present, and still recover from the May 21 fire. In all of these activities, the University has been extraordinarily supportive. We now have five trailers surrounding Douglas. The Elisabeth Miller Library and Hyde Herbarium are scheduled to open in temporary quarters before the holidays.

However, layered on all of these activities is the September 11 tragedy, the condition of the state's economy, and the very strong likelihood of significant budget cuts at the University of Washington.

Our dreams about the new Merrill Hall and your support have made the valleys less deep and have sustained the high points. Thank you!

TOM HINCKLEY, Ph.D., 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

**CENTER FOR
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URBAN HORTICULTURE NEWSLETTER, VOL. 19, NO. 1

CUH/WPA Continuing & Public Education Staff:

Sue Nicol, Outreach Coordinator
Jean Robins, Program Coordinator
Sandy Kirchner, Outreach Assistant
Monica Ravin, Education Coordinator (Youth & Community Outreach)
Shawna Zuege, Arboretum Education Assistant

CUH/WPA Building & Rentals Management Staff:

Becky Johnson, CUH Facilities Manager
Ray Larson, CUH Facilities Manager



CENTER for URBAN HORTICULTURE

College of Forest Resources
University of Washington
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Seattle, WA 98195-4115

WINTER 2002

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