

HORTICULTURE

UNIVERSITY OF WASHINGTON

COLLEGE OF FOREST RESOURCES

SPRING 2003

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Photo courtesy CDC, photographer Jim Gathany



West Nile Virus: A Common Sense Approach

SHARON COLLMAN, IPM OUTREACH COORDINATOR, EPA REGION 10

As the weather warms and gardeners spend more time outdoors, mosquitoes begin biting. With West

Nile Virus (WNV) now in our state, there is reason for caution but not panic. Despite heavy news coverage, WNV has barely arrived. Rash action with excessive and unnecessary spraying can actually increase mosquito problems by removing the checks and balances that keep mosquito populations low. Here are some common sense tips to keep in mind this summer:

Where WNV outbreaks have occurred, there is evidence that many people have contracted it without knowing they were sick; or they experienced only mild flu-like symptoms. As with the flu and other common diseases, the most susceptible people to WNV are those with compromised immune systems, the elderly and very young. Susceptible people should take special precautions against mosquitoes. Check with your physician if you have flu-like symptoms with a rash. Beware that WNV may become a popular and "easy-out" diagnosis; physicians should request a lab test to confirm the disease. The virus is not spread by casual contact and humans are not a preferred host.

In the Home and Garden

Mosquitoes breed in calm waters. Remove or manage water sources by cleaning gutters and drains, removing old tires, and turning over buckets, pots, toys, and other containers. Fix leaky faucets and sprinklers, and remove puddles. Replace the water in bird baths, fountains or wading pools every four days if larvae are present. Stock ponds with fish to consume mosquitoes; check with pond specialists on the best ways to protect the fish from raccoons. Turn ponds or low spots into bog gardens (no standing water) with appropriate plants. *(continued on page 3)*

CENTER for URBAN HORTICULTURE



SPECIAL EVENTS

"Blueprint for the Future"

8th Annual NHS Auction and Party to Benefit the Miller Library

Save the date! On Sunday May 4 from 5 p.m. to 8 p.m. the Northwest Horticultural Society hosts its eighth annual auction and garden party to benefit the Miller Library. Gardeners will gather to enjoy this fine party at CUH while helping raise funds to furnish the new and improved Elisabeth C. Miller Horticultural Library. Cost is \$65 (benefactor donation \$150). NHS members automatically receive invitations. If you are not a member and would like to attend, call the NHS office at 206-527-1794.

Garden Photography with Allan Mandell

Friday May 30 and Saturday May 31

Learn to photograph gardens by learning how to see in the garden. Allan Mandell is an award-winning professional garden photographer whose work is published internationally in leading garden magazines and books. His books include *Artists in their Gardens* and *Naturalistic Gardening*. He will teach students to work toward a new understanding of what it means to practice photography in this 3-part class that includes a lecture, photo shoot at the Bellevue Botanic Garden, and follow-up potluck/critique session. See additional information on page 9 of this newsletter.



Celebrating Wildflowers at Woodland Park Zoo

Saturday June 7, 10 am to 3 pm

The Rare Plant Care Program at the Center for Urban Horticulture is sponsoring a Celebrating Wildflowers event to promote appreciation of Washington State's native plants. There will be lots of activities for kids (wildflower coloring, pollinator game, microscopes to look at flower parts, and petting moss). The U.S. Forest Service, Native Plant Society, and other program sponsors will have information available on how you can help protect our native plants. Look for the fun near the Butterflies and Blooms Exhibit at Woodland Park Zoo.

West Nile Virus Tips *(continued from page 1)*

Join with your friends and neighbors to help the elderly and others who are unable to remove mosquito breeding sites themselves. Landscape professionals can be especially helpful in spotting mosquito breeding areas and advising customers. Place or repair screens on all doors and windows. Do not spray inside buildings to kill mosquitoes. This provides relief only until the next mosquito flies in the door.

Protect Yourself and Your Pets

People vary in their attractiveness to mosquitoes and mosquitoes vary in the time of day, or season, that they bite. Most are active at dusk and dawn but some are day fliers. Mosquitoes have favorite areas you can avoid, and they are less active when it is windy and cold. Most human infections occur in late summer during hot weather. If you are among the “chosen”, wear long-sleeved shirts and long pants made of tightly woven fabric, and hats with mosquito netting especially near woods or ponds. Use a mosquito repellent formulated with DEET or Eucalyptus Oils labelled as repellants. Apply lower concentrations of DEET (10 to 35%) lightly to any exposed skin only if needed. Use higher concentrations ONLY on clothing, netting, or tents. READ, and FOLLOW THE LABEL (especially the “fabrics-to-avoid” info). See health websites for more detail, particularly for children under the age of 2.

For pet birds, dogs, cats and horses, consult with your veterinarian or the web. Do not use repellents unless advised by a vet. Animals can ingest the repellent when they are grooming. Birds and horses are especially susceptible to WNV, but not most dogs and cats.

Websites for more Information:

Pesticides: <http://npic.orst.edu/wnv/introduction.htm>

DEET: <http://edis.ifas.ufl.edu/ig122>

Centers for Disease Control and Prevention: <http://www.cdc.gov/ncidod/dvbid/westnile>

American Mosquito Control Association: <http://www.mosquito.org/mosquito.html>

King County Health Department: <http://www.doh.wa.gov/ehp/ts/Zoo/wnv/wnv.htm>

Olmsted Legacy Displayed in Arboretum Signature Bed

As part of the year-long centennial celebration of the original Olmsted plan for the Seattle park system, the Friends of Seattle's Olmsted Parks (FSOP) have created an Arboretum Signature Bed that reflects the Olmsted spirit. Developed by Douglas Jackson & Associates, the bed was designed to represent a typical Olmsted-designed park. “Signature plants” used by the Olmsteds include cotoneasters, viburnums, rhododendrons, spireas, dogwoods, and several northwest natives, including salal and evergreen huckleberry. These and other plants were selected to demonstrate the casual feel, the layering effects, and the unusual combinations of color (in bark, foliage and bloom), leaf shape and texture that the Olmsteds were famous for. The bed includes a greater variety of plants than would typically have been used in that small a space. Plant lists for the Signature Bed are available at the Graham Visitors Center. Stop by and pick up some Olmsted-inspired ideas for your own garden.

Visit the FSOP website for updated information on Olmsted events. It is at <http://www.cityofseattle.net/friendsofolmstedparks/>.



Arboretum Signature Bed, Summer of 2002

News from CUH and WPA



Don't forget the NHS auction, "Blueprint for the Future", to benefit the Miller Library on Sunday May 4. See page 2 for more information.

Tour the Miller Library

Take a guided tour of the largest public horticulture library in the Pacific Northwest with Brian Thompson, acting Library Manager. Learn about the many different resources available including the lending collection, seed catalogs, clipping files and gardening software. Tours will be held the first Monday of each month and will begin at 7 p.m. in the Library's reading room in Isaacson Hall. Plan to spend approximately 45 minutes. No reservations needed.

PNW Authors on the Library Website

Not only is the Northwest blessed with an ideal climate for growing beautiful gardens, we also have a number of talented authors to guide us through design decisions and plant choices. Read brief biographies of Pacific Northwest authors and see a list of the books they wrote on gardening in this region and on the magnificent native flora we all enjoy. Go to www.millerlibrary.org>>Resource Center>>Pacific Northwest Authors.



Urban Forestry Symposium

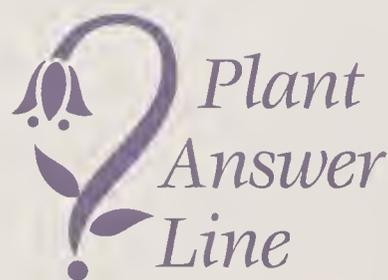
You can still register for the "Tools and Techniques to Manage the Urban Forest" Symposium. Local and national speakers will address topics such as economics and the urban forest, urban wildland fires, the human dimensions of urban forest management, effects of global climate change, urban design in the era of endangered salmon, and the Citrus Longhorn Beetle. Sponsors include the UW College of Forest Resources, PNW Chapter of the International Society of Arboriculture, City of Bellevue, WA State Dept. of Natural Resources, and City of Seattle. Check the CUH website at www.urbanhort.org for a schedule, list of speakers, and registration information or phone 206-685-8033.

Libraries Collaborate on Reading List

"Gardening: A Beginner's Reading List" was recently published by the Seattle Public Library and was created by Keiko Frank, gardening librarian at SPL, and Brian Thompson, acting manager of the Miller Library. The list brings an awareness of CUH to a new audience and was used as the centerpiece of a display highlighting gardening resources from both libraries at the SPL central branch during the month of February. For your copy, stop by the Miller Library at CUH or any branch of the Seattle Public Library.

Linda Chalker-Scott named "Educator of the Year" by WSNLA

The Washington State Nursery and Landscape Association has awarded Dr. Linda Chalker-Scott of CUH the Educator of the Year award for 2002. Linda writes a monthly column 'Of Myth and Men' for the WSNLA newspaper, *B&B*, and is an Associate Professor of Plant Stress Physiology and Sustainable Landscape Management. Students in her classes have gained valuable real-life experience in designing and installing sustainable urban landscapes. Congratulations, Linda, for this well-deserved honor.



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

volunteer

NEWS AND OPPORTUNITIES

Union Bay Opportunities:

CUH Reception Desk Volunteers Needed

Interact with visitors, faculty, staff, and students while helping out with phone calls, light office work, and answering general questions. No experience necessary. There are several 3 and 4 hour weekday shifts available. Call Ray Larson at 206-616-9113.

Union Bay Gardeners Wanted

Volunteers are needed to maintain the Union Bay Gardens located at the Center for Urban Horticulture. The gardens contain a variety of plant types ranging from vines and herbaceous perennials to native woody shrubs and trees. Seasonal maintenance tasks are performed throughout the year rain or shine, so workers should dress appropriately. Work may be performed individually or in small groups 3 to 4 hours per week. Please contact Barbara Selemon at 206-685-2613 or e-mail her at selemon@u.washington.edu.

Rare Plant Seed Collectors and Processors

We are looking for volunteers to help collect seed from rare plants across the state and others to clean and process seed for the new Miller Seed Vault. Collectors need skills in plant identification and a willingness to travel. If interested, phone Program Coordinator Laura Zybas at 206-616-0780 or e-mail her at lzybas@u.washington.edu.

Seattle Youth Garden Works

Enthusiastic adults needed 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. We are also looking for larger groups of volunteers to participate in work crews on service days. For more information, contact Rebecca at 206-525-1213, ext. 3133 or e-mail volunteers@youthgardenworks.com.

Arboretum Opportunities:

Volunteers needed at the Arboretum

Volunteers provide a vital source of support caring for Arboretum plant collections and managing invasive weeds. Become a regular Tuesday gardener every week from 12:30 to 3:30 p.m. Tasks will vary with the season. Community service groups are also encouraged to lend a hand in one of many areas needing attention. Many hands make light work. Work parties can be scheduled throughout the year. Please phone David Zuckerman at 206-328-4182.

WPA Information Desk

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. Phone Brett Mercier at 206-543-8800.



Saplings Guide Training March 31 - April 4

Training is just around the corner and we are eager to fill each volunteer position. Saplings guides are asked to commit to one program a week for twelve weeks in the spring. New guides must attend at least one training session from 9 a.m. to noon the first week of April. All levels of experience are welcome. If you have any questions or would like to sign up for training, please phone 206-543-8801.

Arboretum Foundation

Early Bloomers Plant Sale

Saturday April 12, 10 a.m. to 2 p.m.

The Arboretum Foundation kicks off Seattle's plant sale season with Early Bloomers, featuring hundreds of plant selections most suitable for early planting and spring blooming. At the Washington Park Arboretum's Graham Visitors Center, 2300 Arboretum Drive East, in Seattle. Admission and parking are free.

FLORAbundance Spring Plant Sale

Saturday April 26, 10 a.m. to 5 p.m.

Sunday April 27, 10 a.m. to 3 p.m.

Dozens of specialty nurseries and vendors will participate in one of the Northwest's best spring plant sales. Available plants include species and hardy rhododendrons, favorite and rare perennials, unusual annuals, grasses, vines, trees including rare conifers, shrubs and vegetable starts. The sale will be held at Sand Point/Magnuson Park, 7400 Sand Point Way NE, Building #30. For a list of participating vendors and nurseries, visit this web site after April 1: www.arboretumfoundation.org

Summer Solstice Sale

Saturday June 14, 10 a.m. to 2 p.m.

An exciting new sale for 2003! Good selection of summer garden and container garden plants. Local gardening celebrities will demonstrate how to create impressive container gardens.

Ongoing Plant Sales at Pat Calvert Greenhouse on Tuesdays, 10 a.m. to noon. Plant donations, Wednesdays and second Saturdays, 10 a.m. to 2 p.m.

Winning Gardens Tour

Saturday June 21, 10 a.m. to 4 p.m.

The Arboretum Foundation's annual garden tour, featuring gardens in the Eastside I-90 corridor. Tickets: 206-325-4510 or at the Graham Visitors Center, available after June 1.

Northwest Horticultural Society

11th Annual Northwest Horticultural Society Spring Tour

April 12, 10 a.m. to 2 p.m.

British gardening authority Christopher Lloyd and Fergus Garrett, head gardener at Great Dixter House and Gardens, will dazzle you with a pair of lectures featuring their creative and timeless designs. This is a once-in-a-lifetime opportunity to hear from two stellar voices in the world of gardening. Tickets are \$35; reservations required. Tickets are available after April 7. Call 206-527-1794 or e-mail: nhsemail@compuserve.com.

For information on Arboretum events and programs, please call 206-543-8800 or visit the website at: www.arboretumfoundation.org

Spring Garden Care Advice from the Master Gardeners

Master Gardeners report that many of the questions asked in the fall have their prevention or remedy in early spring. Peg Pearson, Master Gardener, offers tips for planting, pruning, lawn care and other seasonal topics with fresh spring eyes:

Planting and Dividing

Transplanting and dividing before new growth emerges contributes to better odds of success. This mild year, many plants are ahead of schedule and the window of opportunity has passed. Fall actually is the preferred time for planting most trees and shrubs here. As with newly potted or bare-root plants, planting and transplanting should not be attempted when soils are saturated. Wait until you cannot make a solid "mud-ball" with your soil before doing serious digging or tromping in your spring garden.

Hostas may be divided just as the first leaf tips poke out of the ground. Dig up the whole clump, rinse the roots free of soil, and look where to cut so that viable roots will support each unit of new growth. Use a sharp, clean knife. This technique also works well with heucheras and hardy geraniums.

Pruning

Foliage and seed heads left on ornamental grasses, ferns, sedums, fennel, lavender and oregano need cutting back before new growth makes the chore more tedious. Rhododendrons and camellias may be pruned to reshape and control size in the two weeks after flowering to ensure flowering next spring.

In general, spring-flowering plants may be pruned shortly after bloom. Removing at the ground a third or a fifth of older stems of shrubs like red-twig dogwood produces the new red stems that we admire in winter. Butterfly bush (*Buddleia*) and smoke tree (*Cotinus*) may be pruned down to a height of 18" to 36" before growth starts. You will end up with a bushier, less lanky form.

Lawn Care

Crane fly monitoring in February and March is the key step. Remove random 6" squares of turf and look for the larvae near the top of the soil layer. In lawns struggling to thrive on 1" of topsoil, damage may occur with very few numbers, whereas lawns with a healthy soil base (6" to 12" of sandy loam) may take more than 40 larvae per square foot to show damage.

Cultural controls are preferred. Fertilize in May and November with organic, slow-release 3N-1P-2K

ratio fertilizers. Aerate and top dress with 1/4 to 1/2 inch of compost, then overseed damaged areas in May. Use mulching mowers to recycle up to 25% of your lawn's nutritional needs over the growing season. If chemicals are required, only Diazinon remains registered for home use. However, it must be applied between April 1 to 15 to avoid injuring nesting birds and won't be sold after December 31 of this year.

Temperature and Water

Even with the recent mild winter, temperatures could still dip below freezing. The average last frost date at CUH is February 21 while colder pockets and higher elevations may have a cold snap after Mother's Day. Soil temperature is important for warm weather plants such as tomatoes and basil. Although spring plant sales sell them in April, do not plant before Memorial Day, since a soil temperature of 50 to 55 degrees F is required.

Our prolonged dry spell since last July will surely impact our gardens and water bills this year. Western red cedars and pines shed more last fall. How trees and shrubs leaf out this spring may give clues of drought damage to roots and indicate a need to mulch with compost or wood chips to improve water holding capacity and reduce evaporation.

Plant Selection

Don't forget that plants have preferences in location, soil, light, and water when shopping at spring plant sales. Planting the right plant with the right companions in the proper place can create sections of your garden requiring less water and maintenance. Many native plants offer texture, structure, and wildlife habitat while saving resources as well as your time.

Other sources of information:

For diagnosis and/or control of insects and diseases:

- *Common Sense Pest Control* (Olkowski and Darr, Taunton Press, 1991)
- Natural Lawn & Garden HotLine, 206-633-0224
- Master Gardener Diagnostic Clinics, 206-205-3100, for locations and schedules

For general gardening information, check out the web site: <http://gardening.wsu.edu/>.



The Master Gardener hotline is available to answer gardening questions. Phone 206-296-3440 Monday to Friday 10 a.m. to 4 p.m.

classes AND PROGRAMS

Step by Step Landscape Design

DATES & TIMES: *Tuesday April 8 and
Thursday April 10, 7 to 9 p.m.*
INSTRUCTOR: *Marianne Binetti, Garden Writer*
LOCATION: *Douglas Classroom, CUH*
FEE: *\$20 per class or \$35 for both classes;
pre-registration required*

April 8: The World's Best Landscaping Ideas
Become inspired. Learn creative ways to enjoy your garden using color, whimsy and practical design ideas. Marianne introduces the S-T-E-P system to solve a design problem and will cover site evaluation, theme gardening, establishing a focal point and planting in layers.

April 10: Picky about Plants and Putting Together Great Plant Marriages
This class will cover how to make happy plant families and combine dynamic duos to form wonderful relationships in the garden. Learn how to plant partners that will support one another in times of ugliness or need, and bring out the best in the plants that you love.

Botanical Illustration - Watercolor

DATES & TIMES: *9-part series: April 17 and 24,
May 1, 8, 15, 22, 29, June 5 and
12, 7 to 9:30 p.m.*
INSTRUCTOR: *Louise Smith, Botanical Illustrator*
LOCATION: *Douglas Classroom, CUH*
FEE: *\$220; pre-registration required*

This class is intended as a follow-up to the Botanical Drawing class, or as a stand-alone course. Louise Smith will take you step-by-step through the basics of watercolor wash and dry brush techniques. Materials for the first class will be provided by the instructor. If students already have watercolor supplies, please bring them. Students will have the opportunity to purchase proper supplies from the instructor (around \$45) or may purchase them independently (at least \$100).

Neighborhood Design & Plant Walk: Madison Park

DATE & TIME: *Saturday May 3, 10 am to noon*
INSTRUCTOR: *Keith Geller, Landscape Architect*
LOCATION: *Map provided at registration*
FEE: *\$25 general public; \$22
Arboretum Foundation Members
pre-registration required*

Landscape architect Keith Geller will lead you through the Madison Park neighborhood to study gardens and front entries in relation to the basic principles of good landscape design. Also to be covered are the many great plant species suited for small gardens and front entrances.

Olmsted Tour of the Washington Park Arboretum

DATE & TIME: *Saturday May 17, 10 a.m. to noon*
LOCATION: *Graham Visitors Center, WPA*
FEE: *This tour is free*

As part of the 2003 Olmsted centennial celebration, the Seattle Parks Foundation is sponsoring a walk through the Washington Park Arboretum. The Olmsted Brothers presented a plan of a new Arboretum in 1936.



Seattle Municipal Archives

Garden Photography

- DATES & TIMES:** *Friday May 30, 7 to 9 p.m. and Saturday May 31, 9 a.m. to noon and 6 p.m. to 8 p.m.*
- INSTRUCTOR:** *Allan Mandell, Garden Photographer*
- LOCATION:** *Douglas Classroom, CUH, and Bellevue Botanical Garden*
- FEE:** *\$90 plus film processing; pre-registration required*

Learn to photograph gardens by learning how to see in the garden. This class is ideal for gardeners and/or photographers who know how to use their cameras and aspire toward capturing the spirit of the garden on film. We will work toward a new understanding of what it means to practice photography. After a Friday evening introductory lecture, students will receive specific visual training during a Saturday morning shoot at the Bellevue Botanic Garden. Film will be processed that day for the evening potluck/critique back at CUH.

This workshop is being offered for the first time in Seattle after rave reviews in Portland. Class size is limited to 20 people. Allan Mandell is an award-winning professional garden photographer whose work is published internationally in leading garden magazines and books. His books include *Artists in their Gardens* and *Naturalistic Gardening*.

My Garden and How I Do It

- DATE & TIME:** *Saturday June 7, 9:30 a.m. to noon*
- INSTRUCTOR:** *Daniel Sparler*
- LOCATION:** *The Sparler/Schouten Garden. Map provided at registration*
- FEE:** *\$25 general public; \$22 Arboretum Foundation Members; pre-registration required*

Since 1992, Daniel Sparler and his partner Jeff Schouten have planted nearly 3000 varieties of plants in their Seward Park garden. Many of the plants originated in the southern hemisphere. Spend a morning in this collector's garden with Daniel who will show "before" slides and share his experience of creating this exuberant, colorful plant paradise. Light refreshments will be served on the Greco-Roman piazzetta.



Rockeries and Rock Walls of Wallingford

- DATES & TIMES:** *Saturday June 14, 10 a.m. to noon*
- INSTRUCTORS:** *Phil Wood, Landscape Designer, and Wade Bartlett, owner of Rock Solid Landscape*
- LOCATION:** *Wallingford Neighborhood. Map provided at registration*
- FEE:** *\$30; pre-registration required*

The Wallingford neighborhood features many rockeries and rock walls, both old and new. Phil Wood and Wade Bartlett combine their talents to offer an overview of the basic design, construction, and planting of these important garden design elements, prevalent in Seattle neighborhoods. This class includes a walking tour, slide show, and demonstration of how to build a dry-stack rock wall.

Whidbey Island Garden Tour

- DATE & TIME:** *Saturday June 21, 8 a.m.*
- LOCATION:** *meet in CUH parking lot*
- FEE:** *\$85; includes tour ticket, transportation and lunch*

Enjoy a feast for the senses at five stellar Whidbey Island gardens. Included on this year's tour is a meandering river of grasses and plantings, an intimate woodland park and retreat, and a tapestry of borders and gardens. This tour lasts all day. Included in the cost is admission to all five gardens (a \$20 value), transportation including ferry fares, and lunch.



affiliated gardening programs

The following classes are offered by Seattle Public Utilities, Seattle Audubon, WSU Cooperative Extension, and King County Master Gardeners together with the Center for Urban Horticulture.

Growing Small Fruits in the Pacific Northwest

DATE & TIME: *Tuesday April 15, 7 to 8:30 p.m.*
INSTRUCTOR: *Holly Kennell, Snohomish County Extension Agent*
LOCATION: *Isacson Classroom, CUH*
FEE: *\$10; pre-registration required*

Raspberries, strawberries, and blueberries all grow well in the Pacific Northwest IF you know the best varieties and provide the proper care. Holly Kennell will cover how and when to plant the fruit, what varieties grow best here, how and when to prune, and other maintenance needs.

Gardening for Wildlife

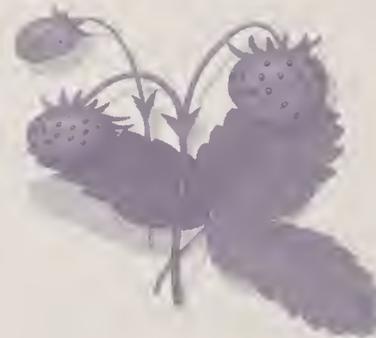
DATE & TIME: *Saturday May 10, 9:30 am to noon*
INSTRUCTOR: *Lauren Braden and Neil Zimmerman, Seattle Audubon*
LOCATION: *Douglas Classroom, CUH*
FEE: *\$10; pre-registration required*

The Seattle Audubon staff and volunteers teach this introductory course on creating a garden that will attract wildlife. Come learn about the relationship between your garden and the birds that live there. Topics will include adopting wildlife-friendly practices such as encouraging beneficial insects, pesticide alternatives, and the best native plants for Pacific Northwest gardens.

Drip Irrigation

DATE & TIME: *Thursday May 15, 7 to 8:30 p.m. & Saturday May 17, 9 a.m. to noon OR 1 to 4 p.m.*
INSTRUCTOR: *Howard Stenn, Stenn Design*
LOCATION: *Douglas Classroom, CUH & Bradner Gardens Park*
FEE: *\$25; pre-registration required*

This two-part class will teach you how to install and maintain a drip irrigation system and how to use it efficiently to grow healthier plants with less water. In the first session at CUH, you'll learn about the various drip systems available, how they are assembled, how to lay them out to avoid problems, where to buy them, what to avoid and how to schedule efficient watering. In the second session on Saturday, we'll meet at Bradner Gardens Park to look at a variety of drip irrigation systems already in place and to have hands-on opportunities to fit drip parts together. Please specify whether you want the morning or afternoon workshop on Saturday when you register.



Pet-Friendly Gardens

DATE & TIME: *Tuesday May 20, 7 to 8:30 p.m.*
INSTRUCTOR: *Mary Robson, Extension Agent for King County*
LOCATION: *Douglas Classroom, CUH*
FEE: *\$10; pre-registration required*

Pets and plants are an integral part of many gardeners' lives. It is possible for each to thrive in the same garden. Mary Robson will discuss the plants known to be poisonous to animals, what products can and cannot be used safely around pets, what to do when the lawn shows too many signs of dog doo doo, and how to design your garden so it's healthy for both the pets and plants in your life.

youth and family programs

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

Self-Guided 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. \$5 fee for two-hour rental. They are 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. Pack comes with binoculars!

Self-Guided Learning Opportunities

Use the Arboretum as your outdoor classroom. This 230-acre urban forest offers a wealth of study materials and experimental opportunities. Education Department staff will assist you to plan 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 so that we can help to suit your group's needs. Phone 206-543-8801.

Arboretum Explorer Packs

Great for teachers, scouts, camps, daycare and other youth groups. Lead your own group on an exploration of this unique 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.

SIGNS OF SPRING (APRIL-JUNE) This spring learn about seed mysteries, seed dispersal, pollinators, parts of a flower and more. Play the seed send off game or the flower mix-up game.

Saplings School Programs

Explore the Arboretum with trained guides! School tours are Monday through Friday, 10 to 11:30 a.m. 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.



Wetland Ecology Walk: Focus on Habitats
Grades K-3

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.

Wetland Ecology Walk: Focus on Ecosystems
Grades 4-8

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.

Life Cycle of a Plant:
Spring Sprouts
Grades 3-6, April - June

What is the reason for a flower? Discover the secrets of springtime as you learn about the lifecycle of plants from flower to fruit.

Perpetuate the cycle by planting seeds of your own to take home.



Native Plants and People
Grades 3-8

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.

Rainforests
Grades 3-6

Through a role-playing activity, students will be able to identify the four layers of tropical rainforests and see who might be living there. Students will learn about the similarities and differences between temperate and tropical rainforest ecosystems. Come observe arboretum species similar to tropical species in behavior or appearance.

arboretum guided tours

Enjoy the seasonal splendor of the Arboretum. Take a walk along historical Azalea Way lined with flowering cherries, azaleas and dogwoods. Loderi Valley features large-leaved rhododendrons and Loderi hybrids sheltered by 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 the Graham Visitors Center Saturdays and Sundays at 1 p.m. Call ahead to ensure a weekend tour, 206-543-8801.



events calendar

FOR SPRING 2003

APRIL

- 3 WA Butterfly Association, 7 p.m., CUH
- 7 Ornithological Society, 7 p.m., CUH
Iris Society, 7:30 p.m., CUH
- 9 **Step by Step Landscape Design**, 7 p.m., CUH
P.S. Mycological Society, 7:30 p.m., CUH
- 7 NHS Lecture, 7:30 p.m., CUH
- 10 Rock Garden Society, 6:30 p.m., CUH
Step by Step Landscape Design, 7 p.m., CUH
- 12 Master Gardener Plant Sale, 9 a.m. to 4 p.m., CUH
- 14 Master Gardener Plant Sale, 10 a.m. to 3 p.m., CUH
- 18 Orchid Society, 7 p.m., CUH
- 15 **Growing Small Fruits in the PNW**, 7 p.m., CUH
Rose Society, 7:30 p.m., CUH
- 17 **Botanical Illustration, part 1**, 7 p.m., CUH
Audubon Society, 7 p.m., CUH
- 21 Assoc. for Women in Horticulture, 6:30 p.m., CUH
- 24 **Botanical Illustration, part 2**, 7 p.m., CUH
- 24 African Violet Show and Sale, noon to 5 p.m., CUH
- 28 Bonsai Association, 7 p.m., CUH

MAY

- 1 **Botanical Illustration, part 3**, 7 p.m., CUH
- 3 **Neighborhood Plant Walk**, 10 a.m., Madison Park
- 4 NHS Auction & Party, 5 p.m., CUH
- 5 Ornithological Society, 7 p.m., CUH
- 7 WA Butterfly Association, 7 p.m., CUH
- 8 Rock Garden Society, 6:30 p.m., CUH
Botanical Illustration, part 4, 7 p.m., CUH
- 10 **Gardening for Wildlife**, 9:30 a.m., CUH
Bonsai Exhibit, 10 a.m. to 6 p.m., CUH
- 11 Bonsai Exhibit, 10 a.m. to 5 p.m., CUH
- 13 Orchid Society, 7 p.m., CUH
- 13 P.S. Mycological Society, 7:30 p.m., CUH
- 16 **Botanical Illustration, part 5**, 7 p.m., CUH
Audubon Society, 7 p.m., CUH
Drip Irrigation, 7 p.m., CUH
- 17 **Drip Irrigation**, 9 a.m. & 1 p.m., Bradner Gardens
Olmsted Tour of Arboretum, 10 a.m., WPA
- 20 **Pet Friendly Gardens**, 7 p.m., CUH
Rose Society, 7:30 p.m., CUH
- 22 **Botanical Illustration, part 6**, 7 p.m., CUH
- 27 Assoc. for Women in Hort., 6:30 p.m., CUH
- 29 **Botanical Illustration, part 7**, 7 p.m., CUH
- 30 Hardy Fern Festival, 9 a.m. to 4 p.m., CUH
Garden Photography, 7 p.m., CUH
- 31 Hardy Fern Festival, 9 a.m. to 4 p.m., CUH
Garden Photography, 9 a.m. and 6 p.m.

APRIL

S	M	T	W	T	F	S
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13	14	15	16	17	18	19
20	21	22	23		25	26
27	28	29	30			

MAY

S	M	T	W	T	F	S
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4	5	6	7		9	10
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18	19	20	21	22	23	24
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JUNE

- 2 Ornithological Society, 7 p.m., CUH
- 4 WA Butterfly Association, 7 p.m., CUH
- 5 **Botanical Illustration, part 8**, 7 p.m., CUH
- 7 Bamboo Festival, 9 a.m. to 5 p.m., CUH
My Garden and How I Do It, 9:30 a.m.
- 9 Orchid Society, 7 p.m., CUH
- 10 P.S. Mycological Society, 7:30 p.m., CUH
- 11 NHS Lecture, 7:30 p.m., CUH
- 17 Rock Garden Society, 6:30 p.m., CUH
Botanical Illustration, part 9, 7 p.m., CUH
- 14 **Rockerries and Rock Walls of Wallingford**, 10 a.m.
- 17 Rose Society, 7:30 p.m., CUH
- 21 **Whidbey Island Garden Tour**, 8 a.m., CUH

JUNE

S	M	T	W	T	F	S
1	2	3	4	5	6	7
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

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: 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 rooms at Union Bay are located at 3501 N.E. 41st Street. Prepaid parking is located adjacent to the buildings.

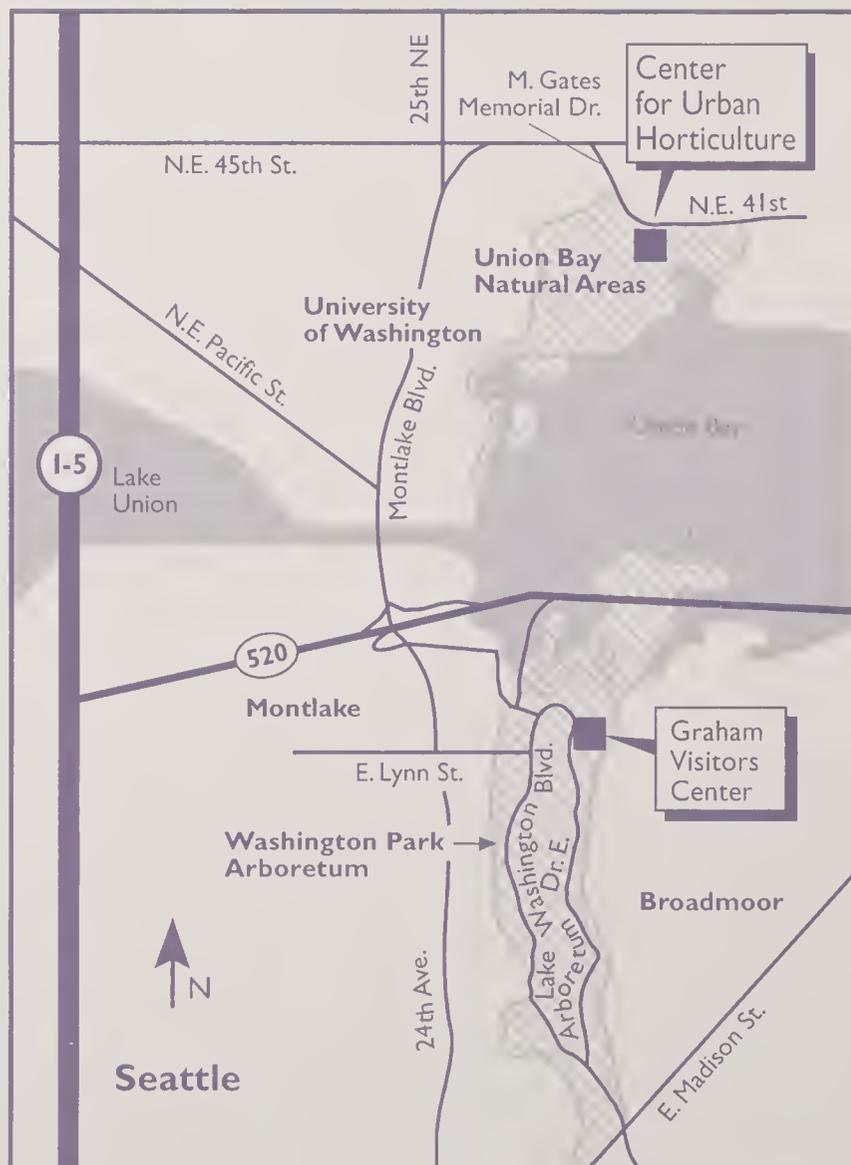
Center for Urban Horticulture

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



PROGRAM	FEE	AF MEMBERS	# PEOPLE	TOTAL FEE
HORTICULTURE PROGRAMS				
Step-by-Step Landscape Design, April 8 only	\$20			
Step-by-Step Landscape Design, April 10 only	\$20			
Step-by-Step Landscape Design, Both Nights	\$35			
Botanical Illustration - Watercolor, 9 weeks starting April 17	\$220			
Neighborhood Plant Walk: Madison Park, May 3	\$25	\$22		
Garden Photography, May 30 and 31	\$90			
My Garden and How I Do It, June 7	\$25	\$22		
Rockeries and Rock Walls of Wallingford, June 14	\$30			
Whidbey Island Garden Tour, June 21	\$85			
AFFILIATED GARDENING PROGRAMS				
Growing Small Fruits in Western Washington, April 15	\$10			
Gardening for Wildlife, May 10	\$10			
Drip Irrigation, May 15 and 17	\$25	Please check May 17 preference:		
<input type="checkbox"/> 9 a.m. session <input type="checkbox"/> 1 p.m. session				
Pet-Friendly Gardens, May 20	\$10			

TOTAL FEE	\$
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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

This spring brings excitement as Merrill Hall nears ground breaking. Fundraising continues, with the Northwest Horticultural Society holding its eighth annual auction and garden party, "Blueprint for the Future", on Sunday May 4 to help furnish the Miller Library. Over 400 tiles have been sold to support the Merrill Hall Commons, bringing in \$110,000; however, more than \$170,000 is still needed to fully develop this central space, so our fundraising work continues. The UW will apply for a building permit by the end of March, hoping to begin construction in July.

The Miller Seed Vault was recently completed this winter inside the Douglas Conservatory with a grant from the Miller Foundation. The seed vault's main purpose is to provide long-term seed storage of Washington's rare plants as well as seeds of horticultural value. We are thankful for the support of all who are helping us rebuild and grow.

TOM HINCKLEY, PhD, 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. 20, NO. 2

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Jean Robins, Program Coordinator
Sandy Kirchner, Assistant Outreach Coordinator
Shawna Zuege, Arboretum Education Assistant

CUH/WPA Building & Rentals Management Staff:
Becky Johnson, CUH Facilities Manager
Ray Larson, CUH Facilities Coordinator
Brett Mercier, WPA Building Services Coordinator



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