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THE CENTER FOR URBAN HORTICULTURE
University of Washington

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LANDSCAPE MAINTENANCE SEMINARS

... for those employed in the field of horticulture.

Cooperating: Center for Urban Horticulture, University of Washington; Cooperative Extension Service, Washington State University; Edmonds Community College; South Seattle Community College.

Landscaping with Native Plants

Date: Wednesday, October 16, 9:00 AM - 12:00 noon.

Location: C.U.H.

Instructor: Dr. Arthur R. Kruckeberg, professor of botany, University of Washington.

The concept of landscaping with native plants has become very popular. Even so, relatively few Northwest natives are commonly used for this purpose. Find out which native plants exhibit desirable landscape traits -- attractiveness, appropriate size, good garden temperament, and ease of propagation. Dr. Kruckeberg is author of Gardening With Native Plants of the Pacific Northwest.

Conifers

Date: Thursday, November 7, 9:00 AM - 12:00 noon.

Location: C.U.H.

Instructor: Walt Bubelis, horticulture instructor, Edmonds Community College.

Review the major conifer groups from a maintenance point of view. Cultural requirements, pest problems, desirable cultivars, and plants for problem areas (wet, dry, windy, etc.) will be covered. Part of this seminar will be held outdoors so dress for the weather.



INTERIOR LANDSCAPE SEMINAR

... for those who professionally maintain interior plants.

Foliage Plants: Identification & Culture

Date: Friday, October 18, 1:00-4:00 PM.

Location: C.U.H.

Instructors: Cheryl Trace and Virginia Powers, interior landscape specialists, Interiors in Green.

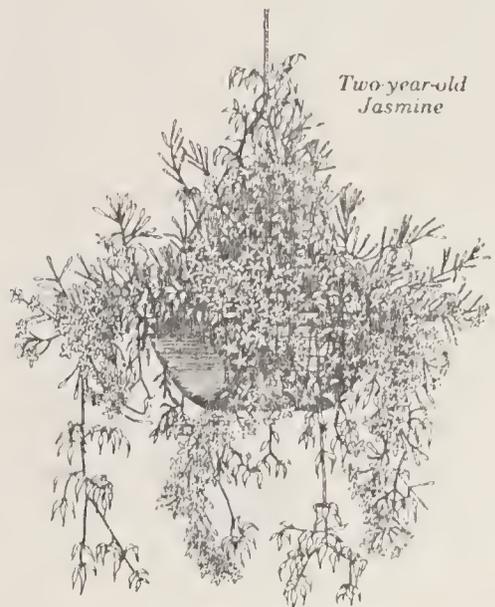
Learn about the variety of species available for interior landscaping. This program will emphasize the cultural requirements (light, water, soil) and pest problems associated with each species. You will also learn how to properly acclimate a plant to its new environment.

REGISTRATION INFORMATION

\$12.50 per seminar or \$30.00 for complete series if registering for all three seminars.

*Special Group rates are now available for firms/institutions that send 2 or more employees to a seminar. The rates are:
2 - 5 employees -- \$10.00/person
6 or more employees -- \$9.00/person.
To qualify for group rates: 1) your firm's registration must be received at least one week prior to the seminar; 2) all registrants must be from the same firm/institution; and 3) a firm's total registration fee must be paid with one check or purchase order.

Save this information for details on date, time, and location. Receipts will not be returned by mail; they will be available at the door.



Two-year-old
Jasmine

REGISTRATION FORM

LANDSCAPE MAINTENANCE/INTERIOR LANDSCAPE SEMINARS

_____ Complete Series -- Native Plant, Conifer, & Foliage Plant Seminars	\$30.00
Individual Seminars	
_____ Native Plants	\$12.50
_____ Conifers	\$12.50
_____ Foliage Plants	\$12.50
TOTAL	\$ _____

Group Rates: Qualifying firms must send a list of employees being registered and one check to cover all registrants at least one week prior to seminar. Firms using purchase orders please call Jan Davis at 545-8033 for registration arrangements.

Make checks payable to the University of Washington; bank cards not accepted.

NAME _____
ADDRESS _____
CITY _____ ZIP _____
DAYTIME PHONE _____

Mail payment and registration to:
Urban Horticulture Program
University of Washington, GF-15
Seattle, WA 98195

For more information please call 545-8033.

TREE SIZE AFFECTS DURATION OF TRANSPLANT SHOCK

Large trees are often transplanted into landscapes for the immediate effect they provide. Unfortunately, these large trees may remain stagnant for many years before resuming normal growth. On the other hand, smaller trees transplanted at the same time tend to recover much sooner. Why do larger trees take longer to recover from transplant shock?

The major cause of transplant shock appears to be the imbalance created between the root system and the top growth of a plant; transplanting may reduce a root system by as much as 98%. During transplanting a larger tree will lose a greater mass of roots, even though it is dug with a larger root ball than a smaller tree. Also, the roots of both large and small trees regenerate at about the same rate. "Lateral growth out from the soil ball of 18 inches per year is average for a well-maintained tree transplanted in friable, well drained soil," according to Gary Watson of Michigan State University.

Watson constructed a model to illustrate the different rates at which large and small trees regenerate their root systems after transplanting. According to this model, it would take a 4-inch d.b.h. (diameter at breast height) tree less than 5 years to replace its original root system, while 13 years would be required for a larger, 10-inch d.b.h. tree to replace its root system. It should also be noted that after 13 years, the small tree's root system would nearly equal that of the larger tree (see table below).

The duration of transplant shock can be minimized by promoting vigorous root growth. The rooting environment can be improved if the soil around the root ball is well drained and aerated, and if a mulch is applied to the soil surface.

Smaller Tree (4 inches d.b.h.)

Years After Transplanting	Percent of Original Root System	Root System Diameter
--	Original	18'
1	9%	6'
2	23%	9'
3	41%	12'
4	68%	15'
5	103%	18'
7	192%	24'
10	390%	33'
13	674%	42'

Larger Tree (10 inches d.b.h.)

Years After Transplanting	Percent of Original Root System	Root System Diameter
--	Original	45'
1	5%	11'
2	8%	14'
3	12%	17'
4	17%	20'
5	23%	23'
7	34%	29'
10	71%	38'
13	109%	47'

Reference: Watson, G. 1985. Tree Size Affects Root Regeneration and Top Growth After Transplanting. Journal of Arboriculture, 11:37-40.



BOOKS

Plants That Merit Attention: Volume I - Trees, Janet M. Poor, editor, 1984. Timber Press, \$39.95.

This book is an effort by The Garden Club of America to bring attention to little known trees with superior characteristics. Nurseries, botanical gardens, arboreta, universities, landscape architects, gardeners, and members of The Garden Club of America were consulted in choosing the 143 species of trees featured in this volume. Descriptions for each tree include hardiness rating, physical characteristics, cultural requirements, and landscape value. They also list arboreta and botanical gardens where specimens of each plant may be observed; a surprisingly large percentage of these are growing in our own Washington Park Arboretum. Each species is illustrated with three full color plates -- one showing the overall appearance of the tree and two highlighting special characteristics. A very useful appendix lists nursery sources for all of the species described. This is a well organized, informative book which will inspire nurserymen, landscape architects, and home gardeners who are looking for new ideas.

Transplanting Manual for Trees and Shrubs, E.B. Himelick, 1981. International Society of Arboriculture, \$8.00.

This is a valuable reference for landscapers, nurserymen, arborists, and landscape architects which covers all aspects of transplanting in a concise and practical manner. Especially useful is a chart which rates various species for ease of transplanting. The best season for transplanting these species is also listed. This publication is available at the prepaid price of \$8.00 per copy from the International Society of Arboriculture, P.O. Box 71, Urbana, Illinois 61801.



OTHER EDUCATIONAL OPPORTUNITIES

EDMONDS COMMUNITY COLLEGE HORTICULTURE COURSES -- FALL QUARTER 1985:

Weekday Courses -- Landscape Materials, Japanese Gardens, Landscape Uses of Plants, Tools & Equipment, Container Landscaping, and Moving Large Trees (one-day workshop).

Evening & Saturday Courses -- Urban Forestry, Sprinkler Design & Installation, Landscape Design, Broadleaf Plant I.D., Basic Design Layout, Pesticide Laws & Safety, Bulbs, Houseplants, Computers in Horticulture, and Tree Felling. 771-1545.

SOUTH SEATTLE COMMUNITY COLLEGE HORTICULTURE COURSES -- FALL QUARTER 1985:

Fall Plant I.D., Landscape Industry, Horticultural Drafting, Fall Landscape Maintenance, Horticultural Science, Maintenance Estimating & Bidding, Plant Propagation, Introduction to Drainage & Irrigation, Landscape Design, Horticultural Sales. 764-5336.

LAKE WASHINGTON VOC. TECH. INSTITUTE:
Offers training in nursery and greenhouse operations through its environmental horticulture program. For information call n Marshall at 828-5621 or 828-3311.

