

Bulletin of the

NATIVE PLANT SOCIETY OF OREGON

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 24 NUMBER 12

DECEMBER 1991

ISSN 0884-599

OUR 30TH ANNIVERSARY YEAR

Its Renewal Time!

The NPSO membership year is January to December. Now is the time for members to renew. But first...check your address label on the back page of the *Bulletin*. You may already be paid for 1992. If there is a 91 on the top line, you need to renew now.

A remittance envelope is included with this issue of the *Bulletin*. Or you can use the membership form on the inside back page. A membership can be an excellent gift to the right person.

It's also a good time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Award is used for summer research projects in Western Oregon, and is a matching grant in cooperation with The Nature Conservancy. The Rare and Endangered Plant Fund supports work with our most threatened plants. The new Sallie Jacobsen Memorial Fund is subject of an article on page 141 of this issue. Contributions can also be made to the NPSO General Fund.

NPSO membership brings you field trips, programs, classes, the monthly *Bulletin*, and the annual journal *Kalmiopsis*. Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

CHAPTER NEWS

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS:

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Please contact the trip leader for information about difficulty, mileage, and terrain. Participation is at your own risk. Bring water and lunch. All NPSO activities are open to the public at no charge (other than carpool mileage), and friends, newcomers and visitors are always welcome.

Notice to field trip chairs and leaders: The Forest Service and other Federal agencies have set policies limiting group size in wilderness areas to 12. The reason for this is to limit the human impact on these fragile areas. Each group using wilderness must be no larger than 12.

Blue Mountain

2 Dec., Mon.

MEETING. 7:30 pm in Room 130, Morrow Hall, Blue Mountain Community College. Program to be announced.

6 Jan., Mon.

MEETING. 7:30 pm in Room 130, Morrow Hall, Blue Mountain Community College. Program to be announced.

Corvallis

For information, call Nancy S. Weber {753-9626}.

Emerald

9 Dec., Mon.

HOLIDAY SOCIAL. 7:30 pm at Rhoda Love's house, 393 FulVue Drive, Eugene. (Take South Willamette St., then Crest Drive, turn left a block above Wayne Morse Ranch Park.) Holiday Party with snack potluck and potpourri of members' slides. Bring a snack and 10-15 of your favorite slides of 1991. For more information, call Rhoda Love at 345-6241.

14 Dec., Sat.

FIELD TRIP: Rhoda Love will lead a winter tree and shrub ID walk at Mt. Pisgah Arboretum. Each participant will receive a revised winter twig key. Bring hand lens, pocket knife and ruler. Lunch and drink optional, as this trip will end around noon. Leave from South Eugene High School parking lot, corner of 19th and Patterson at 10am. For more information, call Rhoda (345-6241).

13 Jan., Mon.

MEETING. 7:30 pm in the Library, Kennedy Middle School, 2200 Bailey Hill Road, Eugene. Dr. Ethen Perkins will show slides and speak on: "Reproductive Biology of Butterfly Milkweed, *Asclepias tuberosa*." For more information, call Jenny Dimling, 343-3242.

10 Feb., Mon.

MEETING. 7:30 pm in the Library, Kennedy Middle School, 2200 Bailey Hill Road, Eugene. Dr. Daphne Stone, an expert on lichens, mosses and liverworts, will show slides and speak on: "The Ecology of Lichens and Some Interesting Lichens of Alaska, Oregon, California and Georgia". Dr. Stone's new brochure, Lichens and Mosses of Mount Pisgah Arboretum, will be available. For more information, call Jenny Dimling, 343-3242.

High Desert

Mid-Columbia

4 Dec., Wed.

For information, call Bill Hopkins (388-7434).

MEETING. 7:30pm at the Mosier School. Keith Chamberlain will present a slide show featuring the botanical highlights of his travels over the past year.

8 Jan., Wed.

MEETING. The 2nd Wednesday of the month due to the New Year's holiday! 7:30pm at the Mosier School. Mike and Jerry Igo will present a multimedia review of their BLM Cost Share Challenge project surveying for an *Astragalus* species near Tumalo.

North Coast

31 Dec., Tues.

MEETING. Canceled because it falls on New Year's Eve. For more information call Jim Winslow (842-2246) after 5pm.

Portland

10 Dec., Tues.

MEETING. 7pm at First United Methodist Church, 1838 SW Jefferson St., Portland. "Members Miscellaneous Program." Bring a dozen or so of your slides to show. Pictures of NPSO activities are especially encouraged, from the recent past or long ago.

Siskiyou

12 Dec., Thurs.

MEETING. Frank Betlajewski, BLM, will discuss "Current Status of Yew Bark Harvesting in Oregon." 7:30pm in Room 171 of the Science Building at Southern Oregon State College.

STARTING IN JANUARY 1992, the Siskiyou Chapter will meet on the third Thursday of the month!

Umpqua Valley

Willamette Valley

16 Dec., Mon.

For information, call Richard H. Sommers (673-3709).

MEETING. 7pm at First United Methodist Church, Room 225, 600 State St., Salem. Wilbur Bluhm, a local native plant authority, will give a slide presentation on "Native Rhododendrons and their companion plants". For more info., call Kathy Connelly (393-1834).

William Cusick

For information, contact Paula Brooks (523-7564).

**BOOK REVIEW: KRUCKEBERG'S LATEST BOOK
WILL BECOME BIBLE FOR NORTHWEST ECOLOGISTS**

THE NATURAL HISTORY OF PUGET SOUND COUNTRY
BY ARTHUR R. KRUCKEBERG,
A WEYERHAEUSER ENVIRONMENTAL BOOK,
UNIVERSITY OF WASHINGTON PRESS, SEATTLE;
488 PAGES, 400 B&W ILLUSTRATIONS, MAPS, TABLES,
NOTES, APPENDICES, BIBLIOGRAPHY, INDEX.
PUBLICATION DATE: NOVEMBER 14, 1991
PRICE: \$29.95 UNTIL 1/1/92; \$40.00 THEREAFTER.

If you care about Northwest ecology, rush out today and buy Art Kruckeberg's newest book, The Natural History of Puget Sound Country. Why should Oregonians want to own a book about Puget Sound? There are at least three good reasons: as we know, all natural systems on our globe are interconnected and interact with each other; what happens in the state to the north of us, affects us here as surely as that which happens a few miles away. In addition, many of the ecosystems the author describes in colorful detail, including forests, streams, prairies, and mountains, are part of Oregon's natural history as well. And I hope that this outstanding book will serve as an example for the writing of companion volumes on such parts of our own state as the High Desert, the Siskiyou, the Willamette Valley and the Columbia Gorge.

Arthur R. Kruckeberg, a University of Washington botanist and now Professor Emeritus, has long been a friend of the environment. NPSO knows him best as founder of the Washington Native Plant Society and long-time editor of its journal, *Douglasia*. He has lived and taught in Seattle for forty years, and, with his searching mind and formidable intellect, has made himself an expert on Puget Sound ecology. This remarkable book is a synthesis of his knowledge of Pacific Northwest ecosystems and a platform for the expression of his personal conservation ethic. He tells us here what has happened and is happening to the natural world of Puget Sound and then leaves it to the reader to decide what to do about it. Early on (p. xiii), he writes, "Central to the matter of choosing alternatives is understanding, that is the mission of this book." And, near the end: "...the inseparability of humans and the rest of the natural world ..., has been the central theme of my book."

The Natural History of Puget Sound Country has eleven chapters which cover in detail such topics as geology, climate, water, marine life, forests, lakes, prairies, mountains, native people, and the impact of European settlement. Each shows the stamp of Art's knowledge and understanding of

the natural world, and his insistence on careful research. Extensively referenced, the book makes note of virtually all the ground-breaking publications on Northwest ecology, such as Rex Cates' paper on slugs and wild ginger, the many alternative theories on the formation of the Mima mounds south of Olympia, Edmondson's work on clean-up of Lake Washington, and Pellmyr and Patt's observations on pollination of skunk cabbage. In fact, the book is well worth the purchase price for its extensive notes and references on pollination of Northwest plants (although I was sorry that it lacked a discussion of Indian plum pollination, a subject that I know has fascinated the author for many years).

As we have come to expect from Arthur Kruckeberg, the style is personal, the descriptions dynamic, and the writing lucid -- even lyrical. When he describes glaciers on the move, run-off silt rushing downstream, or salmon fighting their way upriver to spawn, the reader feels the cold of the ice, the anguish at the loss of life-giving soil and nutrients, the crash of falling water, the heroic struggle of the fish. While this volume will certainly make a superb text book, it has none of the dryness we often associate with text book style. I predict that once you start Puget Sound Country, you will not be able to put it down until you have devoured it all.

One final tough question: did the timber giant, Weyerhaeuser, which endowed the writing of this work, exert editorial influence on the author or editors? Knowing the rock solid integrity of Art Kruckeberg, I would say absolutely not. In fact, in a number of places the book decries present and past forest mismanagement, and several of the fine photographs reveal the horrors of the worst kinds of logging practices. In one place (p. 118), Kruckeberg writes, "Alas! Hardly anywhere along the shores of Puget Sound can we expect to find samples of old growth forest not modified by

humans." In the chapter on mountains, we find (p. 321), "Many fine stands of Pacific silver fir are being logged in patch or clear cuts,... eventually it may be only in national parks or natural area preserves that one can stand in awe of montane forests dominated by this species." And later (p. 416), "And now, in the twentieth century, the juggernaut of exploitation and development continues its careening path across our land." I, however, would have liked a more detailed indictment of the forest industry for past excesses. For example, in the chapter on water, although there is a good discussion of exacerbation of erosion by logging roads (p. 376), the connection is not made between clear-cutting and catastrophic flooding. And, in the section on forest ecology, I was disappointed not to find mention of the study by Harmon, Ferrell and Franklin (*Science*, Vol. 247, pp. 699-701), which showed that the amount of CO₂ released to the atmosphere as a result of clear-cutting far exceeds the amount of carbon which can be removed by young Douglas fir plantations.

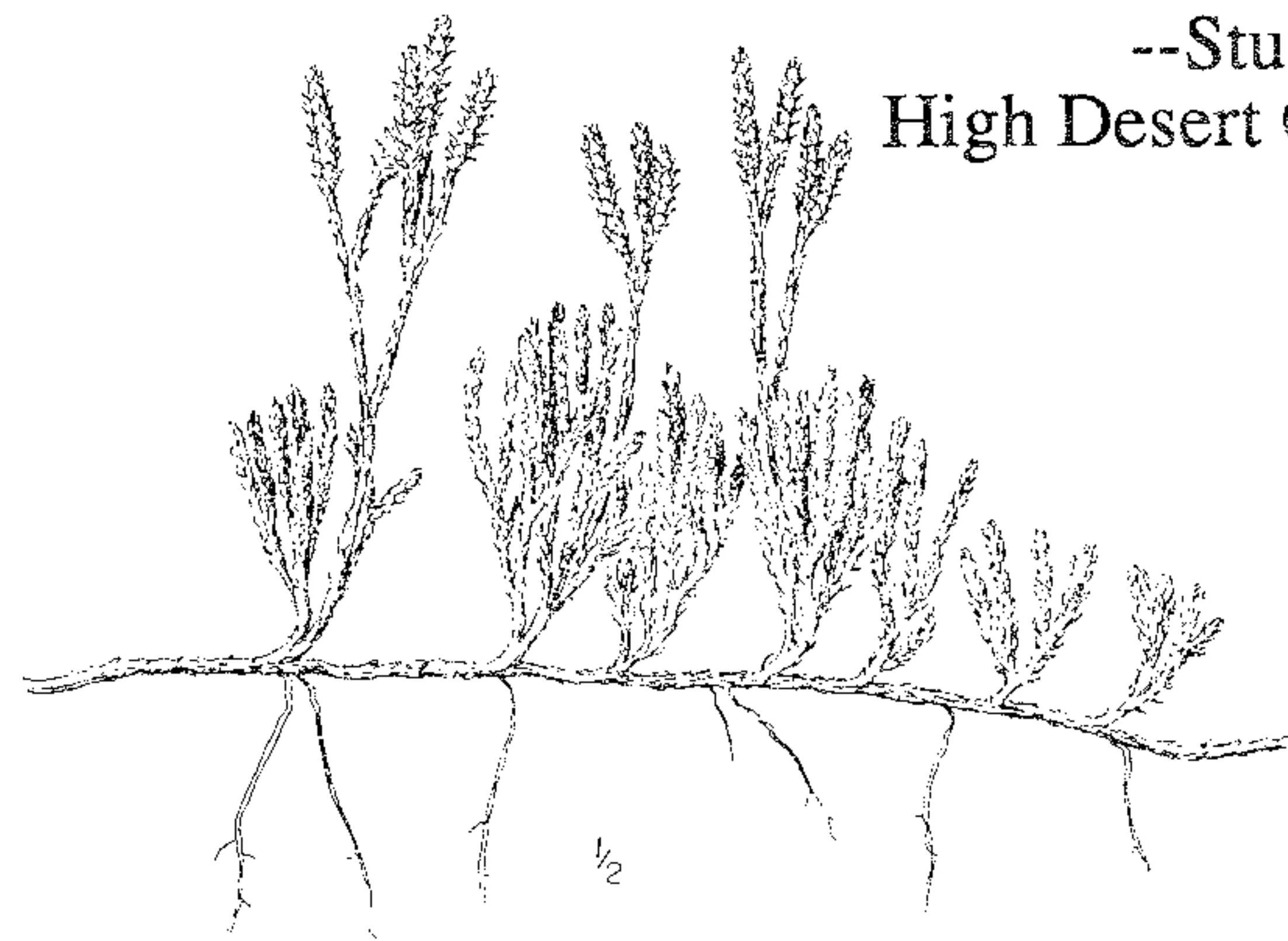
However, do not let this minor criticism prevent you from owning this very fine book. I predict that The Natural History of Puget Sound Country will be the Pacific Northwest ecologist's bible for many years to come. You will certainly want to read this book.

--Rhoda Love
Emerald Chapter

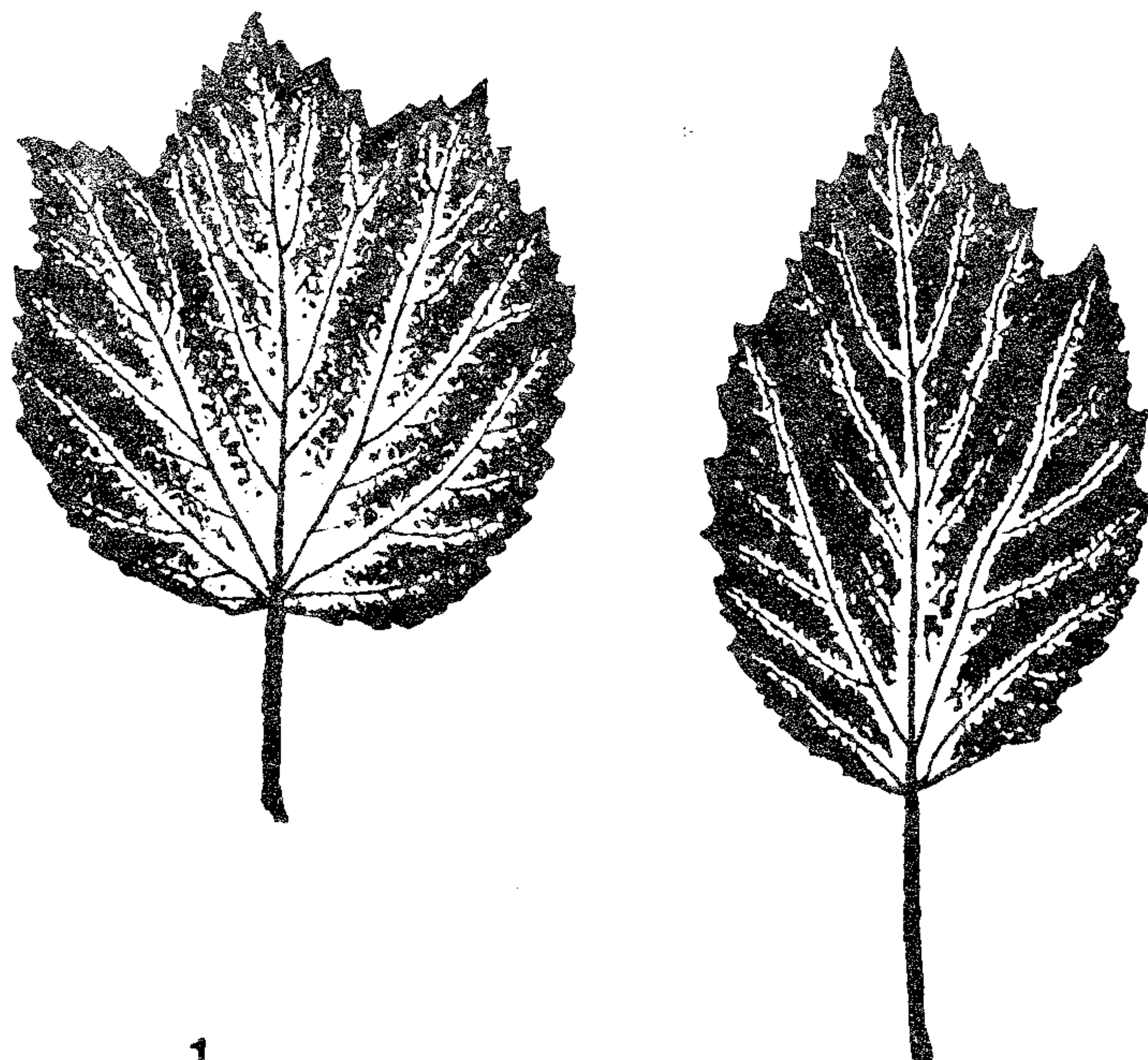
ANNUAL MEETING ANNOUNCEMENT

The High Desert Chapter (Bend) wishes to announce that they will host the Annual Meeting on Friday, Saturday and Sunday June 5th, 6th and 7th 1992 at the Malheur Field Station, 60 miles south of Burns. Field trips are tentatively planned for the Trout Creek Mountains, a visit to an ancient ponderosa pine forest, the salt deserts and hot springs of Mickey Basin, the *Stephanomeria* ACEC, and a plant tour around and on Steens Mountain. Mark your calendars now!

--Stu Garrett
High Desert Chapter



Lycopodium sitchense, Sitka clubmoss
Drawn by Jeanne R. Janish, from Hitchcock & Cronquist's Flora of the Pacific Northwest



1
cm

THE PLANT PUZZLE

Sponsored by the Siskiyou Chapter

Do you recognize this plant?
The first person to give the correct scientific name will win a prize.
The illustrated leaves are from a native woody species.

Send your guess on a postcard to:

Peter Zika
4230 NW Clubhouse Pl. #1
Corvallis, OR 97330

Barbara Rupers of Salem solved the September puzzle: *Ribes niveum*, the snow or Snake River gooseberry.

CONSERVATION GROUPS MAKE JOINT EFFORT TO CREATE INTERPRETIVE PROJECT IN MEMORY OF SALLIE JACOBSEN

Sallie Jacobsen was an active and inspiring member of a number of environmental groups. Some of them independently started collecting funds for commemorative projects in her name. When we learned about each other's plans, we decided to join forces and pool our money. The groups that have teamed up include the Environmental Educators Association of Oregon (EEAO), the North Coast Chapter of the Native Plant Society of Oregon (NPSO), the State Board of the NPSO, and Sallie's NPSO subcommittee on the Wise Use of Native Plants in Landscaping. The subcommittee realized that we couldn't raise enough money for a research grant to study methods for stabilizing dunes with native plant species. When combined, the funds now amount to more than \$950. We need at least four or five hundred dollars more to begin the project we have in mind.

The memorial project that we have decided upon is natural history interpretation at Cape Meares State Park. The park was one of Sallie's favorite places, located almost in her backyard. The main natural history interpretive stories to tell in the park involve seabird colonies, other birds that can be seen at the park, gray whales, the old growth forest and a few coastal plant species. The primary goal of the group is to design and install at least one interpretive sign featuring the birds that can be seen while visiting the park.

Coincidentally, the Friends of Cape Meares had also been raising funds for several interpretive signs on history of the lighthouse, whales and birds, but they didn't quite have enough money. They decided to coordinate with our group. The US Fish & Wildlife Service is responsible for managing the nearby nesting seabirds, which number more than 10,000 individuals and represent six species, including the tufted puffin. USFWS will act in a consulting role and may provide artwork.

The State Office of Oregon State Parks will review the concept and design of each sign and the overall siting of all the interpretive signs at Cape Meares State Park to insure good placement for current and future development. The Cape Lookout State Park District will also review the overall plan. They will install the interpretive panels.

The sign will probably be a 3' X 2' panel made of highly weather- and vandal-resistant materials. It will feature illustrations, written information and a photo or illustration of Sallie (watching birds, perhaps). This will be embedded in fiberglass, mounted on marine grade plywood and framed with anodized aluminum. Any extra money will be used for additional signs or other aspects of natural history interpretation in the park.

Jim Winslow, North Coast Chapter President, will serve as coordinator of the memorial project. You may send tax deductible contributions to:

Jim Winslow
8750 Valley View Drive
Tillamook, OR 97141

Please make checks out to "North Coast Chapter, NPSO", and note on the check that it is for the "Sallie Jacobsen Memorial Fund". If you have already contributed, you have our thanks.

Marjorie Willis
Willamette Valley Chapter NPSO

SEEKING SEDGES

The Oregon Natural Heritage Program is reviewing the contemporary status of some sedges. These species may deserve rare, threatened or endangered status in Oregon. If you recently collected or suspect you may have seen populations of any of these species, please contact Peter Zika (4230 NW Clubhouse Pl. #1, Corvallis OR 97330; (503) 753-9514).

Carex backii
Carex brevior
Carex dioica
Carex norvegica (including *media*, *vahlia*)
Carex occidentalis
Carex retrorsa
Carex serratodens
Carex tenera
Carex whitneyi
Scirpus lineatus

--Peter Zika
Corvallis Chapter

RECENT NAME CHANGES IN *ADIANTUM* and *STELLARIA*

Cathy Paris (1991) studied the *Adiantum pedatum* complex in North America and concluded that the Western maidenhair fern deserves the rank of a separate species: *Adiantum aleuticum* (Ruprecht) Paris. She also has found small populations of this taxon disjunct on serpentine substrates in northeastern North America, and are distinct from the Eastern woodland *Adiantum pedatum sensu stricto*.

Another Oregon species, *Stellaria longipes*, longstalk starwort, was recently revised by Chinnappa and Morton (1991). All the varieties listed for Oregon in local manuals were lumped into *S. longipes* Goldie spp. *longipes*. The only other subspecific taxon remaining is the new combination *S. longipes* spp. *longipes* (Raup) Chinnappa & J. K. Morton, an endemic on sand dunes along Lake Athabaska, on the border of Saskatchewan and Alberta.

LITERATURE CITED

Chinnappa, C. C. & J. K. Morton, 1991. "Studies on the *Stellaria longipes* complex (Caryophyllaceae -- Taxonomy". *Rhodora* 93: 129-135.

Paris, C. A., 1991. "*Adiantum viridimontanum*, a new maidenhair fern in eastern North America". *Rhodora* 93: 105-122.

--Peter Zika
Corvallis Chapter

In Memory-- Ray Godfrey

On Monday, October 7th, Ray Godfrey died from a heart attack. Ray spent a lot of time discovering plants in southwestern Oregon and truly was a unique individual. This past summer, He and Frank Callahan led a field trip to see *Calochortus coxii*, the plant they had recently named. He will be greatly missed by those of us in Southwestern Oregon.

--Barbara Mumblo
Siskiyou Chapter

WILDLIFE AND VEGETATION OF UNMANAGED DOUGLAS-FIR FORESTS

This new 533 page publication from the Pacific Northwest Research Station of the US Forest Service promises to be an important resource for land managers, ecologists and others interested in the survival of native plant and animal species. This will be especially true if their survival depends on old growth forests. Written by an interagency group of scientists, biologists, and land managers, the book is the result of ten years and two million dollars of research carried out by the Forest Service Old-Growth Forest Wildlife Habitat Research and Development Program. The book is a combination of 37 papers from a 1989 symposium titled "Old Growth Douglas-fir Forests: Wildlife Communities and Habitat Relationships". Technical coordinators of the book are Leonard Ruggiero, Keith Aubry, Andrew Carey and Mark Huff.

This research program set out to identify plant and animal species either dependent on, or finding optimal habitat in, old growth Douglas-fir forests, and to delineate their biological requirements and ecological relationships. The program also sought to define and inventory old growth Douglas fir forest ecosystems.

The research shows that old growth forests provide habitats very different from those of younger stands. It showed that some species require certain features of old growth---such as tree cavities or foliage patterns found only in the interior of large old growth stands. The concept of 'species guilds' is emphasized in the book. Species guilds consist of species which share in the use of specific environmental features. 24 species or species guilds are identified as "closely associated" with old-growth Douglas-fir forests; another 68 are listed as "associated".

It is also shown that forest structure, habitat relations, and species distribution and abundance varies widely both within and between geographic regions within the study area. This means developing region-wide management strategies may not be possible because of the need to tailor planning to local realities. Aubrey states that "We now clearly understand that very complex issues are involved in determining the kinds, amounts, and arrangements of environments needed to ensure the viability of plant and animal populations".

--Bryan Boyce

POSTERS, NOTECARDS,

T-SHIRTS, DECALS....

These Attractive NPSO Products Make Wonderful Gifts and Show Your Support of NPSO Activities! Available from your Chapter and at some Chapter events, and as noted below.

★ **POSTERS**---The NPSO State Organization is currently sold out of wildflower posters. Some chapters still have it available. Also, Emerald Chapter President Jenny Dimling has a quantity on hand. Contact her at PO Box 920, Eugene {343-3242}. The currently available poster will not be reprinted. An all-new poster is in the works. Watch this space for details about the upcoming release of our new poster series.

★ **NOTECARDS**---The new NPSO notecards feature seven rare plants illustrated by Julie Kierstead plus one by Eugene artist Valerie Sloane. Printed on pastel parchment-style paper in beige, grey blue and green with matching envelopes, these notecards make lovely gifts. Proceeds go to the NPSO's Rare and Endangered Plant Fund. The collector quality works include Gentner's fritillary (*Fritillaria gentneri*), Kamchatka lily (*F. camchatcensis*), red clintonia (*Clintonia andrewsiana*), Myrtle Creek mariposa (*Calochortus coxii*), Barrett's penstemon (*Penstemon barrettiae*), rough popcorn flower (*Plagiobothrys hirtus*), triplet lily (*Triteleia laxa*), and Gorge daisy (*Erigeron oreganus*). For further information or to order via the mail, contact Nancy Fredricks at (509) 427-8778, Box 127, North Bonneville, WA 98639. For an example, see the illustration on page 144.

★ **T-SHIRTS**---Available through your local chapter, or these can be ordered through Jenny Dimling PO Box 920, Eugene, OR 97402 (503) 343-3242. They are in a variety of colors. Sizes and designs available are, in unisex sizes:

NPSO logo in S short and long sleeved.

Cornus canadensis in short and long sleeved L & M.

Darlingtonia in short sleeved M, long sleeved M & L, and sweatshirt S.

Delphinium leucophaeum in short sleeved XXL, XL, & S, and long sleeved S.

Erythronium in short sleeved M, and long sleeved M & S.

Lomatium bradshawii in short sleeved S.

Opuntia in long sleeved S.

Pediocactus in sweatshirt S.

Polypodium glycyrrhiza in short sleeved M and sweatshirt XL, L & M.

Trillium in short sleeved XL & L.

Viola glabella in short sleeved XL, L & M.

★ **DECALS**---Our official trillium logo is featured in green on an opaque white background. They are designed to go on the inside of your car or other windows. Order from the High Desert Chapter, c/o Stu Garrett, 21663 Paloma Drive, Bend, OR 97701. They are \$1 each with a minimum order of five.

