

Bulletin of the  
**NATIVE PLANT SOCIETY of OREGON**

To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

Volume 22

No. 8

August 1989

ISSN 0884-5999

**CHAPTER NEWS**

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips will 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. Your participation is at your own risk. Bring water and lunch.

**Blue Mountain**

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For information, contact Bruce Barnes (276-5547).

**Corvallis**

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For information, contact Dan Luoma (758-8063).

**Emerald**

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For information, contact Diane English (484-9287).

**High Desert**

5 Aug., Sat.

**Field trip** to Broken Top volcano. Limited to 18 people. To register, call leader: Stu Garrett (389-6981 or 382-2811).

**Mid-Columbia**

2 August, Wed.

**Meeting.** 7:30 pm at Mosier School. A taped music-slide presentation entitled "From Maine to the Canadian Rockies---A Search for Unspoiled Nature" will be presented by local photographer Paul Kuiper. It features many natives which Paul is soliciting our help in identifying.

**North Coast**

3 August, Thurs.

**Pot Luck Picnic** 6:00 pm at Kilchis County Park. Contact Margaret M. Willets for info. (842-6945).

19 August, Sat.

**Field trip** for low tide exploration at Oceanside Wayside. Meet there at 8:15 am. Coffee follows at Roseanna's. Coordinator: Sallie Jacobsen (842-4350).

**Portland**

5 August, Sat.

**Field trip** to Mt. Adams' flower gardens. Leave at 8 am from Gateway MAX Park-and-Ride, or at 9 am from Hood River Inn. Leader: Keith Chamberlain (1-478-3314). Portland contact: Elizabeth Handler (244-5320).

12 August, Sat.

**Field trip** from Cloud Cap south to Hood River Meadows. Leave at 8 am from Gateway MAX Park-and-Ride. Rendezvous at Hood River Meadows at 9:30 for car shuttle. Leave from Cloud Cap at 10 am. Leader: Louise Schaer (629-9976).

- 19 August, Sat. **Field trip** to identify plants of the alpine communities. Leave at 8 am from Gateway MAX Park-and-Ride, or 9 am from Heidi's Restaurant off Highway 26. Leader: Dr. Ed Florence, assistant professor of biology at Lewis and Clark. For info: Elizabeth Handler (244-5320).
- 26 August, Sun. **Field trip** to Trapper Spring Meadow. Leave from Gateway MAX Park-and-Ride at 7:30 am or from Ripplebrook Ranger Station at 9 am. Inventory the rare *Lycopodium mundatum*. Leader: Tom Chereck Jr. (284-5156).
- 2 Sept., Sat. **Field trip** to Indian Heaven Wilderness via Chenamus Lake-Bird Mtn. loop. Distance 8 miles. Wilderness regulations limit group size to 14 persons. **Preregistration required.** Leader: Elizabeth Handler (244-5320---best to phone before 8 am or after 6 pm).

## Siskiyou

- 5 August, Sat. **Field trip** to Red Mountain. Leave from Valley of the Rouge Bank in Talent at 8:30 am. Richard Brock will lead this moderate hike. We will see some later blooming alpine wildflowers, including several rarities. Info: 482-4111.

## Willamette Valley

*Please notify the trip leader if you plan to go on any Willamette Valley Chapter field trip.*

- 5 Aug., Sat. **Field trip** to the wildflower-filled Canyon Creek Meadows below Three Fingered Jack Mountain. Moderate hike, 6.6 miles round trip. Particular emphasis will be on monitoring of endangered plants (*Elmera* and *Heuchera*) in the area. Leave at 7:30 am from South Salem K-Mart. Leader: Wilbur Bluhm (393-2934).
- If you want to be notified about unscheduled mid-week trips, call Clint Urey (743-2802) or Glenn and Barbara Halliday (371-1025).
- 18 Sept., Mon. **Meetings** will resume in Sept. at the same location, First United Methodist Church, corner of SE Church and State Sts., Salem (use the Church St. entrance), but the starting time will change to **7:00 pm** rather than 7:30 as before.

## Wm. Cusick

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For information, contact Karen Antell (963-0267).

## Elkhorns Amble Fundraising Hikes

Oregon Natural Resources Council, Friends of Lake Fork, and Grande Ronde Resources Council all stage the 5th annual Elkhorns Amble July 22-23 at Anthony Lakes Campgrounds.

The Friday evening spaghetti dinner is \$5 and includes orientation for Saturday's main events. These include hikes varying from 2 to 22 miles and an overnight llama trek. The \$15 registration fee can be covered by pledges, and covers Saturday breakfast and an all-you-can-eat chili dinner, followed by music.

For more information call Carole Bennett or Nena Lovinger in Eugene at 344-0675, Tim Lillebo in Prairie City at 820-3714 or Charles Jones in La Grande at 963-3339.

## Waldo Wilderness Walk

Oregon Natural Resources Council is sponsoring the 7th annual Waldo Walk August 12 and 13. Saturday features a variety of day hikes, canoe trips, and a children's environmental show. In the evening enjoy a cookout with music, and join ONRC Conservation Director Andy Kerr for a campfire chat.

Participants in Sunday's Waldo Walk collect pledges for each mile they walk. Proceeds go to ONRC and the Waldo Wilderness Council.

Registration forms are available from ONRC at 1161 Lincoln St., Eugene, Or., 97401 (344-0675).

The following article was sent to us by Gail Baker of Duvall Wash., who teaches botany and ecology at North Seattle Community College. Bob Boiko, one of here students submitted it as part of a lab write-up.

It's a Fern's Life

The fern began it's life as a spore---one among a million frightened comrades tucked inside their sporangial womb; clinging for life to their mother's sori. One day the capsule broke and the haploid wanderer was tossed to the wind. It came to rest on a moist mound of mud. It was the piece of earth it would forever call home. As a young gametophyte, the budding plant soon fell in love with itself and formed a heart. It's sexual organs, one of each type, blossomed, as rhyzoidal whiskers poured forth from it's prothalloidal chin.

The fern was then reborn, a diploid sprout, a parasitic sporophyte, flourishing on the sap of it's precursory mother. It's mother spent, the rising sprout became a dweller in the sun; pushing roots, not rhizomes, down, as fiddleheads reached towards the sky.

Time passed. The fern unveiled a multitude of megaphylls to the heavens. It became strong. Feeling it's potential, it unleashed a ream of renegade runners to populate it's little cove with a colony of vegetative cousins.

And then, as is and shall always be, what was once a frightened spore became the bearer of a new generation of meiotic may-bes, to be whisked away by the winds of fortune while wondering: What will be life?

TURTOX KEY CARD  
for  
Fern Life History

HOW TO PICK A WILDFLOWER

You can lie on your stomach  
in a meadow  
and watch it grow.

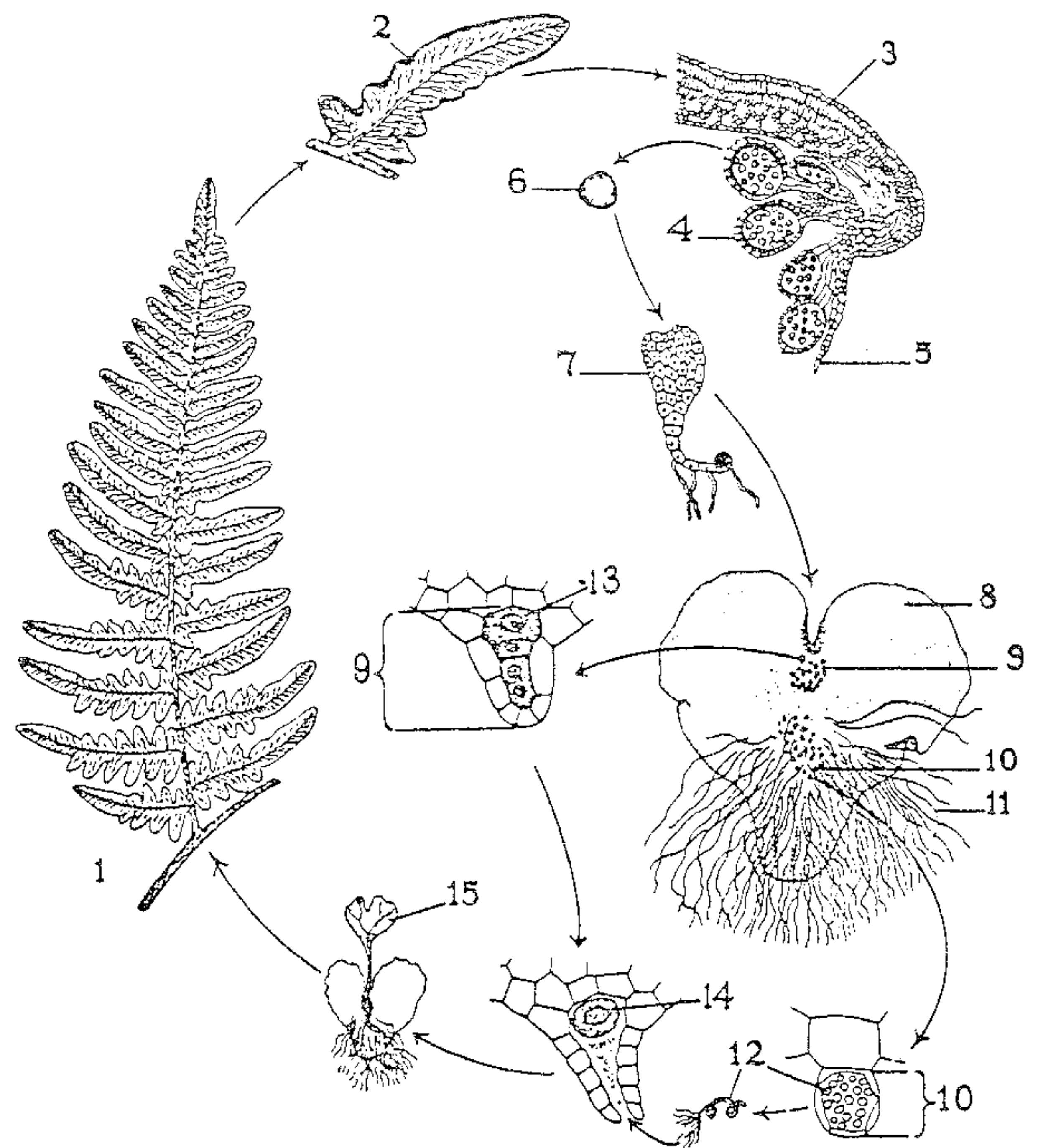
You can stare at it  
through a magnifying glass  
to better discern each leaf.

You can paint it  
sketch it  
etch it  
in whole  
or just in bloom.

You can take it's picture  
Then blow the picture up  
larger  
larger  
larger  
and hang it on your wall.

Or you can pinch the stem  
between your fingers  
and separate it from the earth  
and kill it.

---From a bulletin board at  
Mt. Rainier National Park's  
Paradise Visitor Center.



- |   |                      |
|---|----------------------|
| 1. Portion of leaf, sporophyte generation | 8. Gametophyte       |
| 2. Marginal sori with sporangia           | 9. Archegonia        |
| 3. Palisade layer                         | 10. Antheridia       |
| 4. Sporangium                             | 11. Rhizoids         |
| 5. Indusium                               | 12. Sperm            |
| 6. Spore                                  | 13. Egg              |
| 7. Young gametophyte                      | 14. Zygote           |
|   | 15. Young sporophyte |

## PLANT FAMILY PROFILES

By Herm Fitz

### The Ericaceae - HEATHER FAMILY

The Heather Family is large and complex, with about 100 genera and some 3000 species scattered throughout the world mostly in acidic habitats of the temperate regions of both hemispheres. Plants occur from sea level in northern areas to high elevations in the tropics, for these are primarily plants of cooler climates. Classification schemes for this family vary: some authors remove segments as smaller families by themselves; others include these same segments as subfamilies within the Heather Family. A commonly encountered system divides the Ericaceae into four subfamilies. In Oregon, which is home for 22 genera, these four subfamilies are as follows:

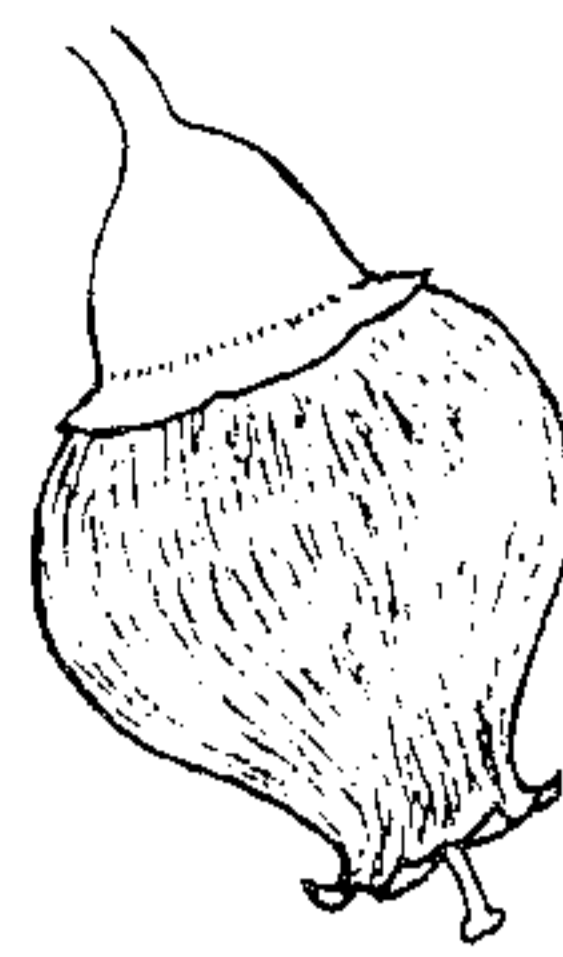
Vaccinioideae - Blueberry Subfamily - This single genus of blueberries and huckleberries, to which the cranberry belongs, is widespread from the coast to the mountains, some at high elevations. The genus is *Vaccinium*.

Monotropoideae - Indian Pipe Subfamily - Various fleshy mycorrhizal saprophytes found in deep humus under conifers in shady forests are included here; some are quite rare. The white and pink striped Sugar Stick (*Allotropia virgata*) bears no corolla. Gnome Plant (*Hemitomes congestum*), Pinesap (*Hypopitys monotropa*), Pine Foot (*Pityopus californica*), and Fringed Pinesap (*Pleuricospora fimbriolata*) all appear just above the duff layer and come in shades of white, brownish-yellow or pinkish-yellow. The bright red Snow Plant (*Sarcodes sanguinea*) occurs in the Siskiyou Mountains and southward. Pine Drops (*Pterospora andromedea*), a tall plant in drier woods, is the only member of this subfamily with the vase-like corolla. Indian Pipe (*Monotropa uniflora*) is easy to recognize - it is pure white at flowering and each stem bears only a single flower.

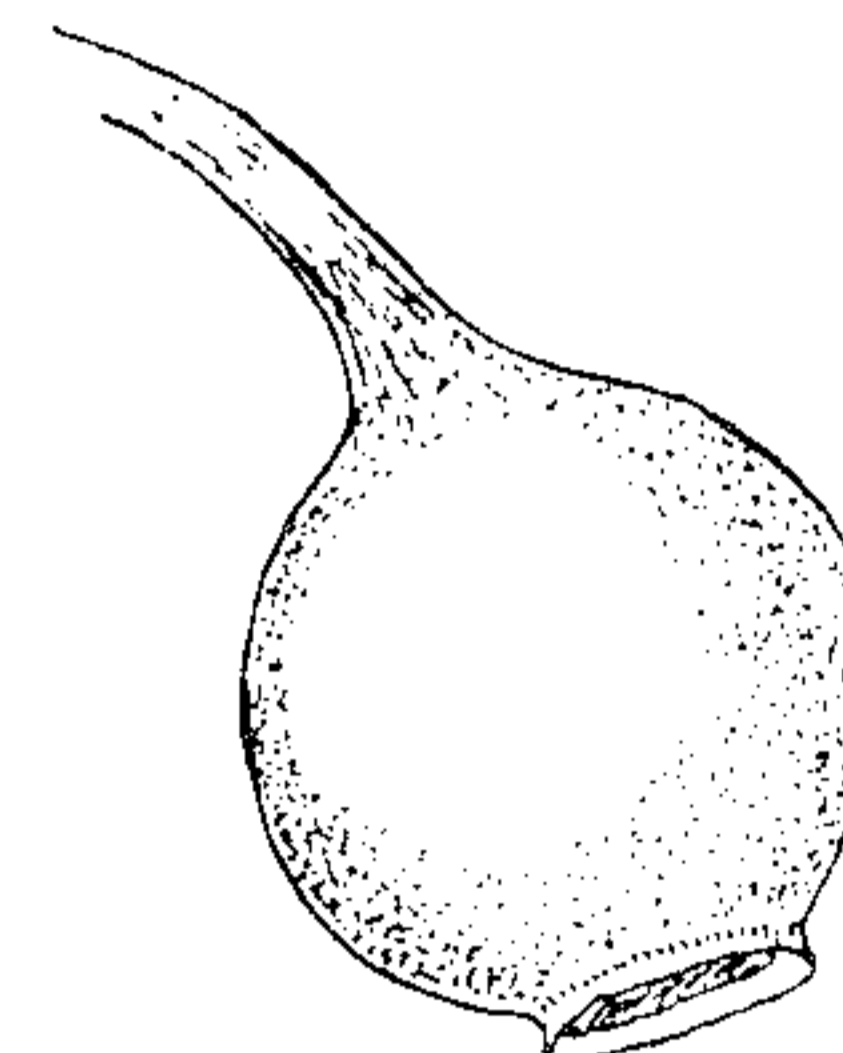
Pyroloideae - Wintergreen Subfamily - This small subfamily has flowers with separate petals and includes 2 evergreen species of Prince's Pine or Pipsissewa (*Chimaphila*) and several species of Wintergreen (*Pyrola*), herbs with basal leaves.

Ericoideae - Heather Subfamily - The largest section of the family contains mostly shrubs to trees. Plants with a vase-like corolla are the handsome Madrone (*Arbutus menziesii*), an arborescent plant with smooth dark brownish-red exfoliating bark found in drier areas west of the Cascades, various species of Manzanita (*Arctostaphylos*) with smooth reddish-purple or brownish bark, White Heather (*Cassiope mertensiana*) above timberline, the familiar and widespread Salal and 2 smaller relatives (*Gaultheria*), Fool's Huckleberry (*Menziesia ferruginea*), a shrub in moist areas along streambanks or around lakeshores, 2 species

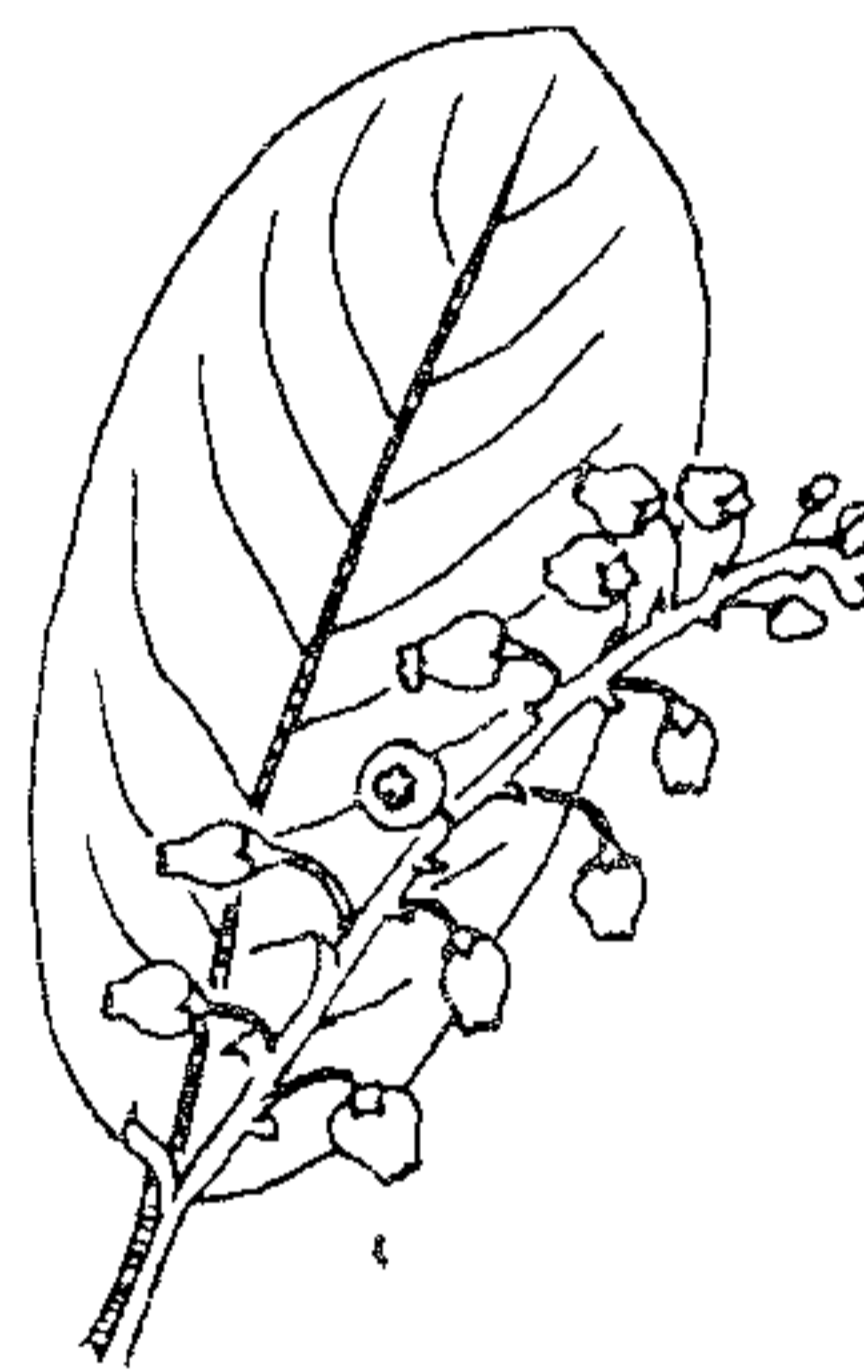
of the dwarf alpine shrubs Mountain Heather (*Phyllodoce*) and Western Leucothoe (*Leucothoe davisiae*) in bogs and around pools of the Siskiyou Mountains and Cascades of southern Oregon. Members of this subfamily with a united but not vase-like corolla include the familiar Rhododendrons and Azaleas (*Rhododendron*) with many cultivated varieties, the pinkish-rose flowered Swamp Laurel (*Kalmia polifolia*) in bogs and mountain meadows, and the rare Kalmiopsis (*Kalmiopsis leachiana*) in the Siskiyou of Curry County. Petals are distinct in 3 species of Labrador Tea (*Ledum*) found in bogs and swamps, and the unusual Cladothamnus (*Cladothamnus pyrolaeiflorus*) of the moist forests and streambanks from Saddle Mountain in Clatsop County north to Alaska.



Flower of Alaska Blueberry (*Vaccinium alaskense*). Note the typical urceolate corolla and inferior ovary (typical of Vaccinioideae).



Fruit of Alaska Blueberry (*Vaccinium alaskense*) which develops from the inferior ovary. Note the persistent ring of the calyx at the tip of the fruit.



Pacific Madrone (*Arbutus menziesii*). Note the evergreen and leathery leaf, the urceolate flowers in a racemose cluster.

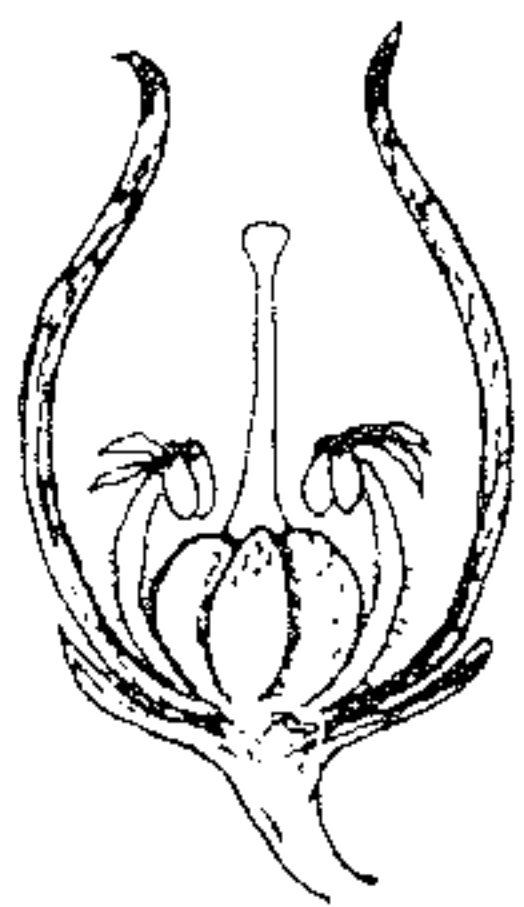


Single leaf and flower of Rhododendron (*Rhododendron macrophyllum*). Note the united corolla with 5 crisped lobes and 10 stamens.

Because of the variation existing within this family, it is difficult to make generalizations regarding their characteristics. Most are shrubs or subshrubs, but the monotropoids are herbs. All members seem to be dependent to some degree on fungal mycorrhiza, especially the monotropoids, which totally lack chlorophyll and live saprophytically in the rotting leaf litter, absorbing their nutrients with the help of the fungus. All have simple leaves, usually alternate, and often evergreen and leathery. Flowers are in umbellate or racemose clusters, or single, and are essentially regular and bisexual. The 4-5 parted corolla may have separate petals, or petals may be united, often forming a vase-like or urn shaped (urceolate) figure. Stamens are usually twice the number of petals or corolla lobes, i.e. 8 or 10, and bear anthers that frequently open by terminal pores and have awn-like appendages. Filaments are often hairy. The pistil contains 4-5 united carpels, with a superior ovary (inferior in *Vaccinium*), a single style and capitate or slightly lobed stigma. Placentation is most often axile, but may be parietal in some monotropoids. The fruit is a dry capsule or a fleshy berry (*Vaccinium*, *Arbutus*, *Gaultheria*, *Arctostaphylos*). The generalized floral formula for the family may be written:

$$\begin{array}{ccccccc} 4-5 & & (4) & - & (5) & & 8-10 & & (4) & - & (5) \\ \text{Ca} & & \text{Co} & & & & \text{S} & & \text{P} & & \end{array}$$

The Heather Family, though variable, forms an important and attractive component of the Oregon flora, generally easily recognized. Hence if you find a non-green fleshy mycorrhizal saprophyte with 4-5 parted flowers, it could be a monotropoid. And if you encounter a shrub or tree with simple leaves, often leathery and evergreen, bearing flowers that may have a vase-like corolla, and if the anthers are awned and open by terminal pores, the filaments hairy - you are no doubt face-to-face with a member of the Ericaceae - the Heather Family.



Longitudinal section through flower of Manzanita (*Arctostaphylos*). Note the single style and capitate stigma, the 5-carpellate ovary and typical stamens.



Typical stamen in Ericaceae. Note the hairy filament, the awned anthers which open by terminal pores.

*Pyrola asarifolia*



*Chimaphila menziesii*

Drawings by Julie Kierstead

## Native Plants in Landscaping

The Native Plants in Landscaping Subcommittee of the NPSO Conservation Committee has held several meetings about encouraging landscaping with native plants and more importantly with native plant communities. Members of five chapters are involved in the subcommittee and are beginning to generate tangible results.

Margie Willis and friends have developed guidelines for an awards program for native landscaping projects (see separate article). This year one award will be presented. The future might see separate categories for landscape architects, nurseries, agencies, corporations, and home gardeners.

Through subcommittee efforts a variety of support for plant community restoration projects is happening. Prairie restoration at Bald Hill State Park will be documented with slides by Ed Alvorson; The BPA, for a landscaping project in Washington, is consulting on using natives with the inimitable Jerry Igo. Special assistance will continue to be given to the Oregon Dept. of Transportation to continue development of a vegetation management policy.

Tags for nurseries to identify native plants at point of sale. Kathy Shutt has developed a draft design and Wilbur Blum is working on coordination with the Oregon Association of Nurserymen.

Creation of a brochure entitled "Why Use Natives?" as an educational project. Compilation of a native plant supplier list is an enormous task which is being undertaken. A letter soliciting information has been mailed. Contact Dale Shank with any names he should contact. (2375 Madrona Land, Canby, Or. 97013.) Criteria for a NPSO "seal of approval" for ethical native plant sources are being developed. Rhoda Love has contacted the Department of agriculture for help with certification paperwork.

A conference entitled "**Designing, maintaining and restoring the native landscape**" will be held in late Sept. The NPSO and Cascadia Native Landscaping Center, along with the Audubon Society, the Oregon Chapter of the American Society of Landscape Architects, and Portland Community College, will co-sponsor this. Our Society needs help manning our booth, with registration and mailings. Volunteers call Mark Wilson (224-0134). Also see the full page announcement in this newsletter.

The subcommittee's next meeting is scheduled for August 26 at Tryon Creek State Park's Nature House (11321 SW Terwilliger Blvd., Portland Or., 97219, 653-3166). All interested please attend. Sallie Jacobsen has more information (eves. 842-4350).

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## BOOK REVIEW

"A Plant Lover's Guide to Wildcrafting: How to Protect Wild Places and Harvest Medicinal Herbs" by Krista Thie. Longevity Herb Press, White Salmon, Wa.

Review by Susan Kofahl Gabay

This new book has been published by one of our own NPSO members! Krista Thie, of the Mid-Columbia Chapter and the Washington Native Plant Society, has hot off the presses a soft cover 63 page publication which should be of interest to all NPSO members. We have long needed an ethical guide to foraging/harvesting native plants. Krista has a long history of interest and dedication in this field. I recommend each NPSO chapter should have at least one copy!

Copies are \$6 each (plus .40 sales tax to Washington residents) and \$1.50 shipping (.25 shipping for each additional book). Checks can be made out and mailed to: Longevity Herb Press, 1549 W. Jewett Blvd., White Salmon, Wa. 98672.

Krista adds that any dissatisfied reader can return the book within 15 days of purchase! However I don't believe you'll be disappointed. Over 60 individual species are discussed; a plant collection chart, resource list, and interesting narrative are all included.

# CASCADIA NATIVE LANDSCAPE CENTER

## SECOND ANNUAL LANDSCAPE CONFERENCE

-DESIGNING, MAINTAINING AND RESTORING THE NATIVE LANDSCAPE-

Co-sponsors:

-Audubon Society of Portland-  
metropolitan wildlife system

-Oregon Chapter, American Society of Landscape Architects-

-Native Plant Society of Oregon-

-Portland Community College-  
department of landscape technology

The conference will open with keynote talks by Francis Dean (FASLA), founding partner - EDAW, Inc. and Dr. James MacMahon (Biologist, Utah State University). Concurrent sessions on woodlands, wetlands, and meadows will follow featuring presentations on ecology, design criteria, and maintenance and management. The first day will conclude with a nursery panel discussion of Pacific Northwest native plant contract growing agreements and specifications.

The second day of the conference will focus on specific native plant design, restoration, and management sites. Conference participants will be members of small, interdisciplinary design teams that will analyze the design problems, propose a master plan, detail implementation, and plan long term maintenance and management. The design team projects will include: a suburban residential garden, an urban natural area, a suburban park, a suburban office park, and an environmental education site.

Conference Date: September 29 and 30, 1989

Portland Community College - Rock Creek Campus  
Portland, Oregon

Registration Fee: \$40.00 - general public

\$35.00 - co-sponsor members and students

Conference Coordinator: Mark G. Wilson/980 SW Broadway Drive  
Portland/Oregon/97201/(503) 2220134

registration flyers will be mailed in mid-august/conference limited to 225 participants

1143 S.E. Umatilla - Portland, Or. 97202

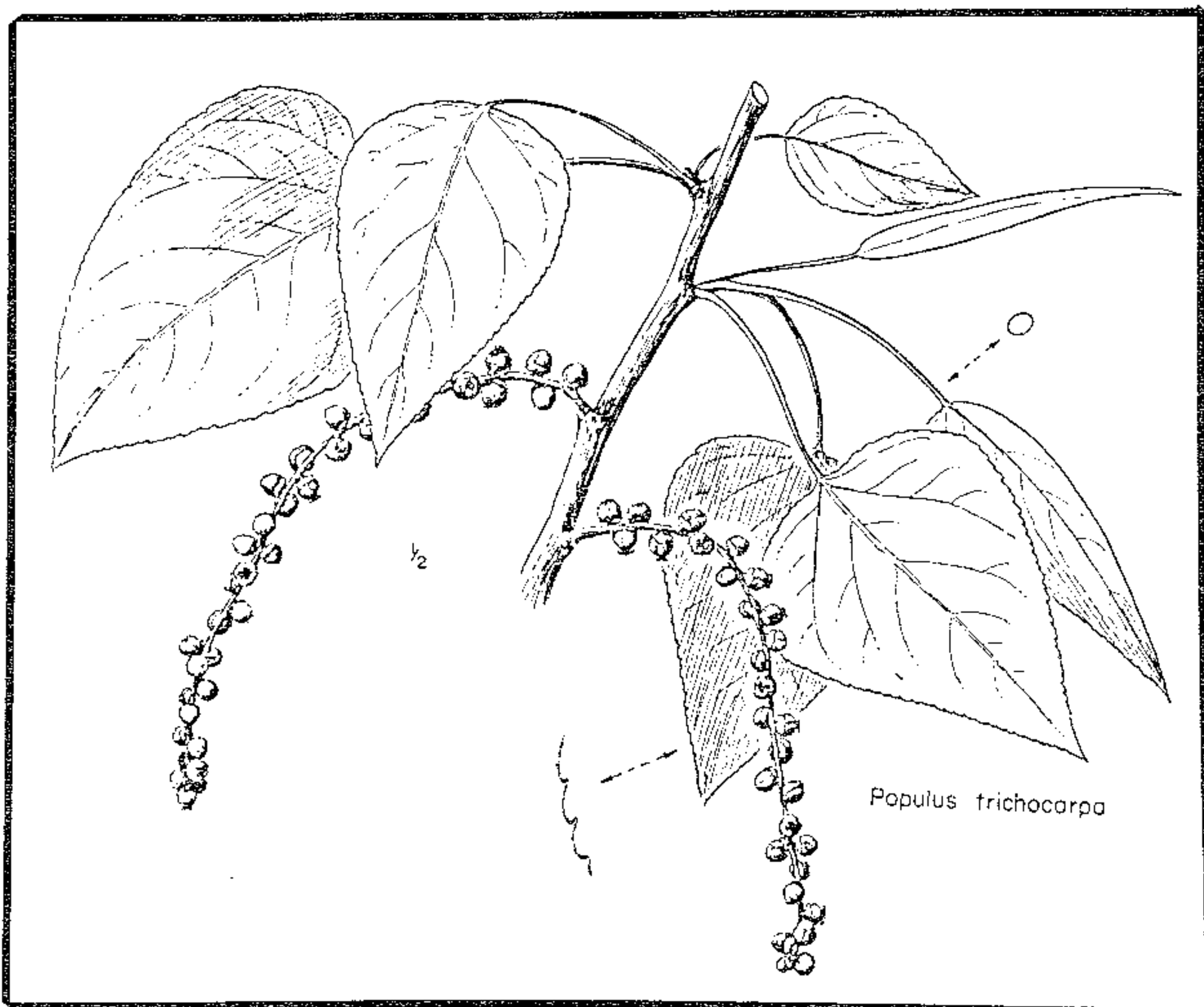
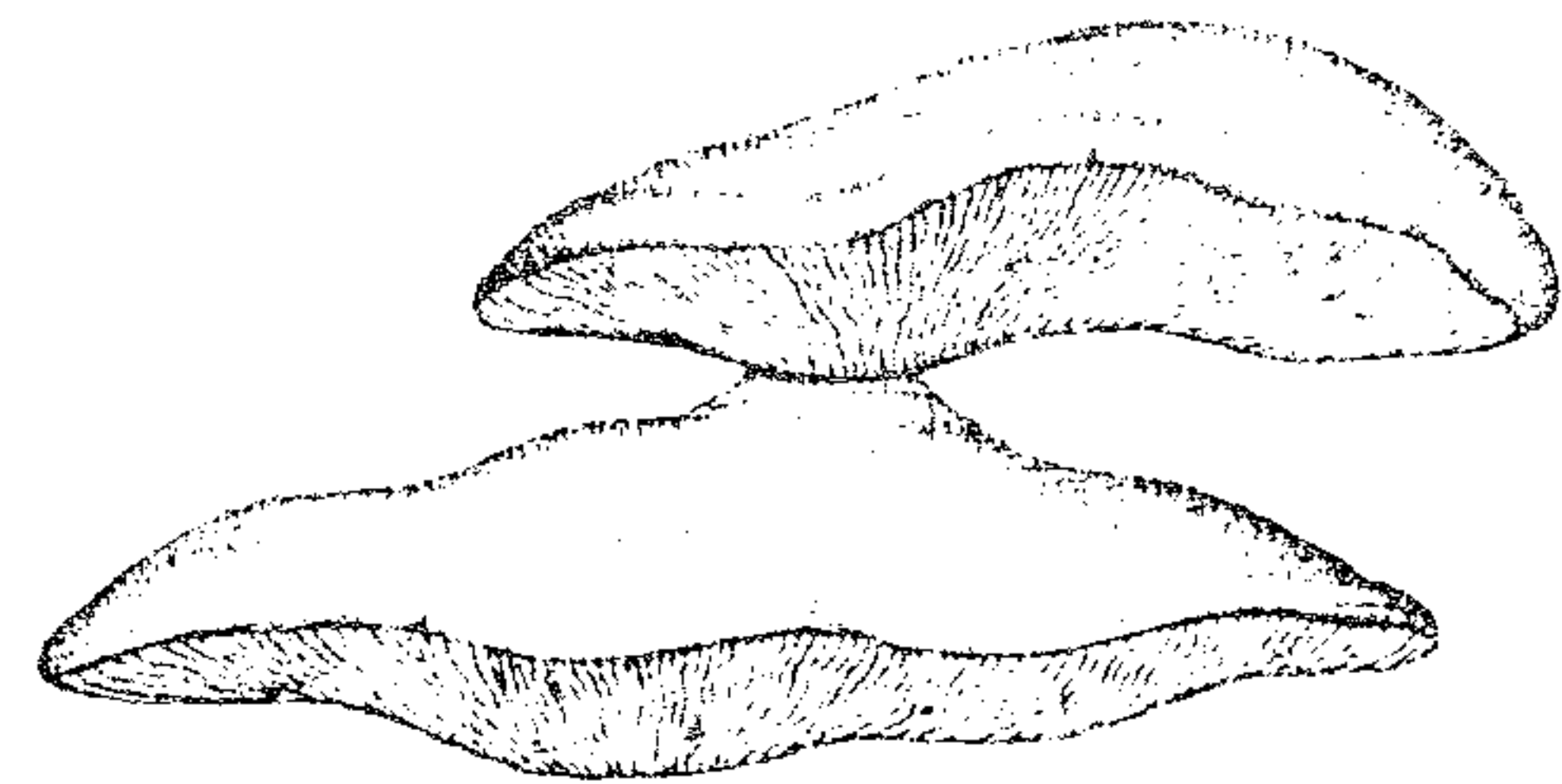
503-236-0395

## “Wildflowers of Oregon” Poster

This striking, full color poster was produced by the NPSO for two purposes---to increase appreciation of Oregon’s wildflower heritage, and to help the NPSO and it’s chapters raise funds. Consequently the poster (which retails for \$4.95) is available to chapters, businesses, and individuals in lots of 10 for \$3.00 apiece plus postage. With a little volunteer help, chapters can raise funds both for themselves and the state organization by offering posters for sale at meetings and shows. The posters also move well at bookstores and tourist centers---with a little more effort, volunteers can make the public more aware of wildflowers and our society, and raise funds for the NPSO at the same time.

The poster is 18” by 24” and printed on heavy paper. The back has information on each of the 13 species illustrated, as well as information on the NPSO. Some of the featured plants included are Western Lily, Bluebell, Cobra-Plant, two orchids and Kalmiopsis.

Single posters are \$4.95 including postage. Lots of ten posters are \$30 plus postage. Checks should be made out to The Native Plant Society of Oregon. Send orders to Susan Gabay, PO Box 151, Mosier, Or. 97040 (478-3576).



### Native Landscaping Award

Nominations are being solicited for the first “Native Landscaping Award”. If you are aware of an outstanding landscaping project using native plants, or a architect or designer who uses natives, or a nursery which ethically specializes in natives, please nominate them for this award. Nominations should include name address, phone, and a one page description of why they have proven to be outstanding. Also include your own name and number! Send nominations to Sallie Jacobsen, 6800 5th St., NW, Tillamook, Or. 97141 by August 25th, 1989.



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GUIDELINES FOR CONTRIBUTORS

The NPSO *Bulletin* is published monthly, as a service to NPSO members and the public. News, articles, letters to the Editor, photos, drawings, and non-copyrighted materials are welcome.

**Deadline:** Copy is due by the 10th of the month, and should be sent to the Editor.

**Text Format:** Typed, camera-ready copy is preferred, but no submission will be rejected because it is not typed. Copy should be typed in 4-1/4 inch wide columns, of any length. If laser printed, use 12 point "Times" font. Author's name and affiliation are typed at the end of the article. Double space between paragraphs, and do *not* indent the beginning of each paragraph. For special material (e.g., plant keys) choose an appropriate format, keeping in mind that readers may wish to carry your article pasted inside their favorite field guide.

**Computer Disks:** Articles may be submitted on MacIntosh diskettes. Please call the Editor for details before sending a diskette. IBM floppy

disks are *not* yet acceptable.

**Illustrations:** Ink drawings or woodcuts are preferred to pictures requiring halftone reproduction. We welcome small illustrations as well as larger works.

**Credits:** If the item is not original, provide name and date of the source. For original items, identify the author and indicate, for news items, whether a by-line is desired. Include instructions as to whether the item is to be used in its entirety or excerpted at the Editor's discretion.

**Scientific Names:** Nomenclature should follow *Flora of the Pacific Northwest* by Hitchcock, et al., where appropriate. Use of both scientific and common names is encouraged. Genus and species are italicized (underlined if italic is not available).

**Return of Originals:** Manuscripts and illustrations will not be returned unless expressly requested.

Membership in the Native Plant Society of Oregon is open to all. Membership applications, renewals, and changes of address (including old address and zip code) should be sent to the MEMBERSHIP CHAIR.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name \_\_\_\_\_ Chapter (if known) \_\_\_\_\_  
 Address \_\_\_\_\_ Is this a change of address?  
 If so, please write your *Old Address* here:  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip+4 \_\_\_\_\_  
 Phone (Home) \_\_\_\_\_ (Work) \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

\* **DUES** include monthly NPSO *Bulletin*. Full membership is for a calendar year, January through December. New memberships enrolled during September through December are charged a reduced "Quarter Membership" rate.

- ( ) New ( ) Renewal ( ) Quarter Membership (Sep.-Dec.) \$2.50 ( ) *Bulletin* Subscription only \$10.00  
 ( ) Student..... \$ 7.50 ( ) Sustaining..... \$ 25.00  
 ( ) Regular..... 10.00 ( ) Patron..... 100.00  
 ( ) Family Membership..... 15.00 ( ) Life Member..... 500.00

\* **CONTRIBUTIONS:** Jean Davis Memorial Award Fund..... \$ \_\_\_\_\_  
 Leighton Ho Memorial Award Fund..... \$ \_\_\_\_\_  
 Rare and Endangered Plant Fund..... \$ \_\_\_\_\_

\* All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible. Please make checks for dues and contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form and full remittance to:

Mary Falconer, NPSO Membership Chair, 1920 Engel Avenue NW, Salem, Oregon 97304.

## In This Issue

How to pick a Wildflower . . . . .	77
It's a Fern's Life. . . . .	77
Plant Family Profile: Ericaceae -- by Herm Fitz. . . . .	78
Native Plants in Landscaping. . . . .	80
Second Annual Native Landscape Conference. . . . .	81
NPSO Wildflower Poster. . . . .	82
Native Landscaping Award. . . . .	82

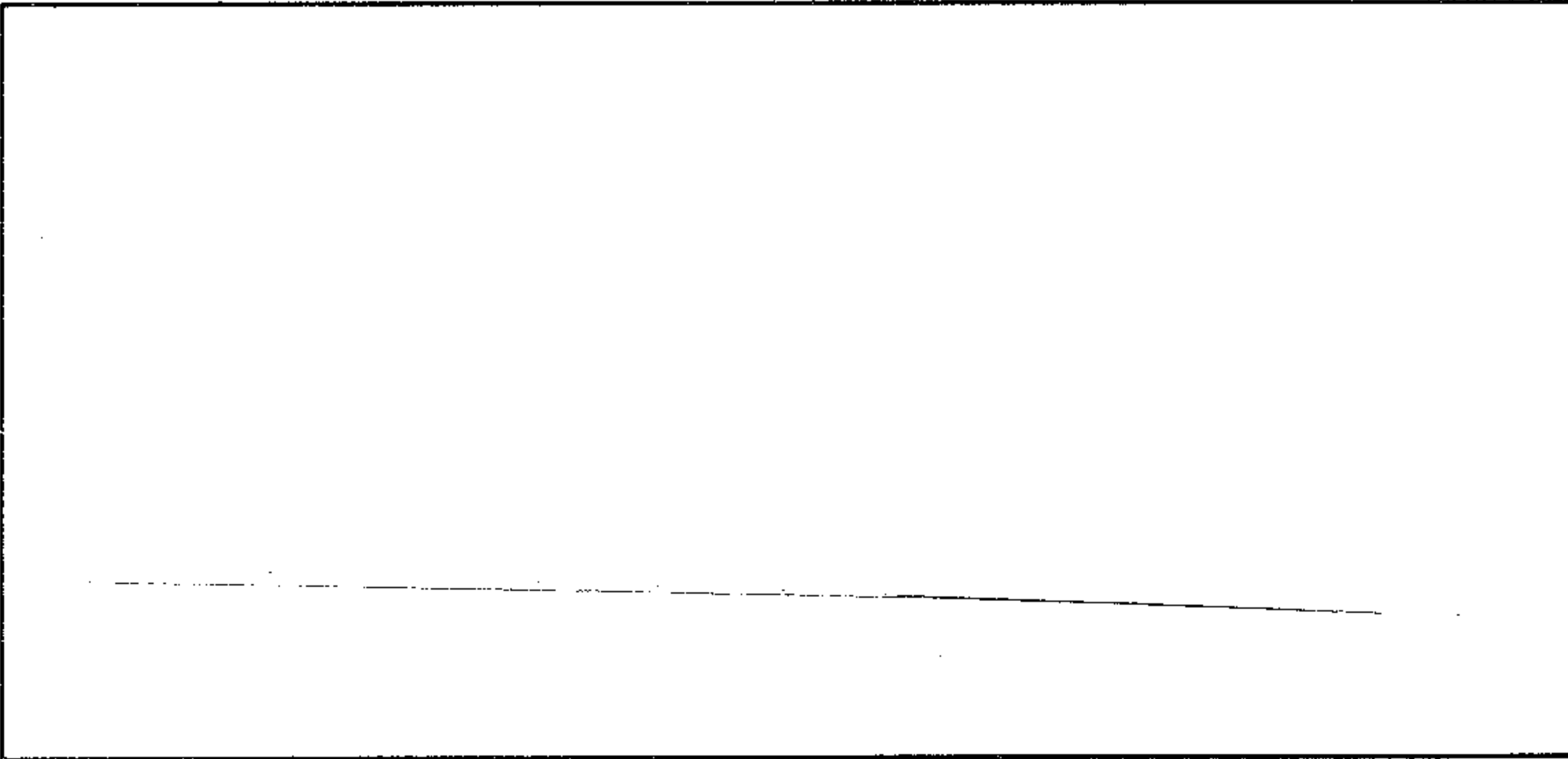
*Please send change of address notices to:*

Mary Falconer, NPSO Membership Chair; 1920 Engel Avenue NW; Salem, Oregon 97304.

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Native Plant Society of Oregon  
3235 N.E. 26th Avenue  
Portland, Oregon 97212

NON-PROFIT ORGANIZATION U.S. POSTAGE P A I D Portland, Oregon Permit #2432
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TIME DATED MAIL