

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 21 No. 5

May 1988

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CHAPTER NEWS

IMPORTANT NOTICE TO FIELD TRIP PARTICIPANTS

Field trips will take place rain or shine so proper dress and footwear is essential. Trips may be strenuous and/or hazardous. Please contact the trip leader for information about difficulty, mileage and terrain. You participate at your own risk. Bring water and lunch.

Blue Mountain

- 28 May, Sat. Field trip to Frazer Campground (between Ukiah and LaGrande). Meet at the EMCC Greenhouse in Pendleton at 8:00 am, or at the Campground itself at 9:30 am. Leader is Karl Urban.
- 11 June, Sat. Field trip to Olive Lake. Meet at EMCC Greenhouse at 7:30 am, or at the 395 Junction west of Ukiah at 8:30 am. For information, contact Bruce Barnes (276-5547).
- 19 June, Sun. Field trip to Skyline Drive. This is a long day's trip on a sometimes rough gravel road,, from Jubilee Lake into Washington state. Meet at EMCC Greenhouse at 7:30 am, or at the turnoff to Jubilee Lake in Tollgate at 8:30 am. Leader is Bruce Barnes (276-5547).

Corvallis

- 7 May, Sat. Field trip to the Findlay Game Refuge south of Corvallis to observe vernal pools and wetlands. For more information, contact Philip Hayes (753-1065).
- 9 May, Mon. Meeting, 7:30 pm, Room 4080, Cordley Hall, OSU. Dr. Ken Chambers will present "Floristic Relationships of Onion Peak, Clatsop County, Oregon."

Emerald

- 9 May, Mon. Meeting, 8:00 pm. Amazon Community Center, 2700 Hilyard St., Eugene. "The Nature Conservancy Land at Willow Creek." Cathy Macdonald, TNC Land Steward, will inform us about this unique area of native Willamette Valley Prairie at the edge of Eugene.
- 22 May, Sun. Field trip. Explore Limpy Rock with Freeman Rowe and see the unique and northern most population of the snowplant, Sarcodes sanguinea, and other special plants of this area. For more details call 344-0312 and watch for announcements in the Register Guard.

High Desert

- 21 May, Sat. Field trip to the Black Hills. Leave from behind McDonalds Restaurant, 2048 NE 3rd, Bend at 8:30 am sharp. Located in the Christmas Valley Basin this moderate 2 mile stroll will feature rare plants in an area of juniper woodland which has been set aside as a botanic preserve by the BLM. If time allows we might take a sidetrip to the Fossil Lake sand dunes or the Lost Forest. Leader: Stu Garrett (339-6981).

4 June, Sat. Field trip to the Ochocos/Big Summit Prairie. Christy Steck will lead us on this trip to her favorite flower areas. Easy hiking and a fair amount of driving. We will carpool in Bend at the McDonalds at 8:30 am and meet others at Christy's home on Ochoco Reservoir. Leader: Christy Steck (447-4693).

Mid Columbia

4 May, Wed. Meeting 7:30 pm at the Mosier School. "Ethnobotany of the Western Pacific Islands" will be presented by Bob Bevacqua, OSU horticulturalist.

1 June, Wed. Meeting 7:30 pm at the Mosier School. Selected slides of native NW plants from the private collection of Dr. John Hammond, donated to the Berry Botanic Garden.

4 June, Sat. 2nd Annual Knapweed Pull on the Tom McCall Rowena Nature Conservancy Preserve. Starts at 9:00am. Bring gloves, hand tool(s), and lunch. Hike the hilltop trail in the afternoon and/or return to Susan Kofahl's home for refreshment rewards!

North Coast

5 May, Thur. Meeting at 7:00 pm in the State Office Building, 3600 3rd Street, Tillamook.

Portland

7 May, Sat. Field trip to sand dunes in the Columbia River Gorge. Leave the Gateway MAX Park-and-Ride at 8:00 am. Leader: Russ Jolley.

10 May, Tues. Meeting, 7:00 pm. First United Methodist Church, 1838 SW Jefferson St., Portland. Chris Topik, Mt. Hood National Forest Ecologist, will give a program on "Forest Plant Communities of the Cascade Mountains."

14-15 May, Sat./Sun. Portland Chapter Plant Show at the Western Forestry Center.

21 May, Sat. Field trip to Dog Mountain in the Gorge. Leave the Gateway MAX Park-and-Ride at 8:00 am. Leader: Vance Terrill.

28-30 May Memorial Day Wkend. Field trip to the Lakeview area. Meet at noon Saturday at the Safeway store in Lakeview. Allow 8 hours driving time, at least. Leader: George Lewis (292-0415).

2-4 July July 4th Wkend. Field trip to Orcas Island. Barb Fox is leading a trip to this island in the San Juan Islands in Washington. She requests that those interested in going send her a postcard (11455 SE 35th, Milwaukie, OR 97222). Be sure to include your phone#.

Siskiyou

12 May, Thur. Meeting, 7:30 pm. Room 171, Science Bldg., SOSC. The Eagle Cap Wilderness will be featured in a slide show by BLM Botanist, Peter Zika. He will present a slide show from last summer's travels through this unique alpine limestone mountain range in NE Oregon looking for endemic plants.

Willamette Valley

7-8 May, Sat./Sun. Wildflower Show, Silver Falls State Park, Silverton, Oregon.

14 May, Sat. Field trip to the Jackson-Frazier Wetlands. Leave the So. Salem K-Mart parking lot at 25th and Mission at 8:00 am. Leader: Wilbur Bluhm (393-2934).

21 May, Sat. Field trip to Mt. Hebo. Leave the So. Salem K-Mart at 8:00 am. Leader: Clint Urey (743-2802).

Wm. Cusick

For information, contact Rachel Sines (963-0674).

ANNUAL MEETING REGISTRATION DUE NOW!!

Don't wait until the last minute; don't put it off. Register today for the NPSO Annual Meeting. It will begin the evening of June 24 and end noon on June 26. The registration form is in this Bulletin and the April one. See last month's issue of the Bulletin for more information.

ELECTION RESULTS

The Ballot Committee has tallied the results of the 1988 elections. Newly elected officers and Directors at Large are listed below. Formal installation will take place during the Annual Meeting Banquet on Saturday June 25th. Information and registration forms for the Annual Meeting are available in the April Bulletin.

A hearty thank you is extended to everyone who ran for an office position. Your willingness to serve NPSO in this manner is greatly appreciated.

President

Dan Luoma, Corvallis Chapter

Vice President

Marjorie Willis, Willamette Valley Chapter

Secretary

Cindy Hohenleitner, Willamette Chapter

Treasurer

Daphne Stone, Emerald Chapter

Directors at Large

Nancy Fredricks, Corvallis Chapter
Jerry Igo, Mid Columbia Chapter
Peter Zika, Emerald Chapter

INTERMOUNTAIN FLORA UPDATE

The Northern Nevada Native Plant Society Newsletter had the following announcement:

For those interested in the upcoming volumes of the Intermountain Flora - - Dr. Arthur Cronquist reports that he is halfway through the manuscript for the composites (Aster Family) - - this will be Volume 5. Volume 3, the Rosidae (rose, saxifrage, spurge, buckthorn, carrot, and other families) is being marked for the printer and should be out this year.

Presently, Volume 1 (geological and botanical history, plant geography, vascular cryptogams, gymnosperms and glossary) for \$35.05, Volume 4 (the Asteridae except the Asteraceae - Gentianales, Solanales, Lamiales, Callitrichales, Plantaginales, Scrophulariales, Campanulales, Rubiales, Dipsacales) for \$79.25 and Volume 6 (monocots) for \$63.95 are available from the New York Botanical Garden, Scientific Publications Dept., Bronx, NY 10458. The prices given here were current on March 28, 1988 and include postage.

1988 RESEARCH GRANTS AVAILABLE

Four research grants of \$400 each, including a special Leighton Ho Memorial award, are available for 1988. NPSO's grants are intended to stimulate research on Oregon's native plants by defraying travel and other direct project expenses. Research furthering the conservation of native plant species or communities is particularly encouraged.

The Leighton Ho Memorial award, in memory of the late Emerald Chapter member, will be reserved for a project focused on western Oregon plants.

Grant proposals should include the following:

- 1) A description of the proposed research project, its method and objective.
- 2) A simple budget explaining how the \$400 would be spent.
- 3) A description of the anticipated end product (a publication, a report, a set of annotated maps, etc.).

Proposals should be sent to Julie Kierstead, NPSO Research Grants Chairman, 11505 SW Summer-ville Ave., Portland, OR 97219 by May 15, 1988.

Two Columbia River Gorge Books Published

Wildflowers of the Columbia Gorge: A Comprehensive Field Guide, by Jess Jolley, includes 744 flowering plants, grouped by plant family. There is a guide to blooming seasons, and a fold-out map showing where to see the flowers. Published by Oregon Historical Society Press, the book is 348 pages with nearly 750 color photographs. Paperbound, 5 x 8 inches. \$19.95.

Columbia River Gorge, photography by James O. Holloway, includes 72 color photographs in a large-format book. Introduction, flora and fauna text, and captions are by Jean Siddall. Historical text is by David Kelly. Geological text is by John Eliot Allen. \$24.95.

(Both of these books will be available for sale at the Portland Chapter Flower Show on May 14 & 15 at the Western Forestry Center.)

Proposed Amendment to the By-Laws

At the last Board of Directors meeting it was pointed out that the current procedure for amending the By-Laws does not (in some cases) require the opportunity for all members to vote. This proposed amendment, instituted under the current By-Laws, is an example. It is being published in the Bulletin one month before the annual meeting, at which, a 2/3 majority vote of approval will result in its adoption.

Article X as amended will require all proposed amendments to be submitted to a vote by the entire membership (with 2/3 majority approval) for adoption. Additionally, all amendments will require proposal by majority vote at a general membership meeting (annual or special) or at a meeting of the Board of Directors. Currently, any member may propose an amendment in the Bulletin one month before an annual or special meeting of the membership. "Duly held" meetings are defined in Articles IV and VI. Changes in the existing language of Article X are indicated in the subsequent paragraphs as follows: **Added language is in bold type, existing language to be deleted is italicized within parentheses, retained language is in plain text.**

Article X — Amendment Procedure
(Amendments)

Section 1. Proposal (Amendment Procedure)

Amendments to these By-Laws may be proposed by a majority vote of (amended by a two-thirds vote of those present and) those voting at any regular or special meeting of the Society, (provided that the proposed amendment or amendments shall have been printed in the Bulletin at least one month before the meeting.) or, amendments may be proposed by a majority vote of those voting at a meeting of the Board of Directors. (*, if approved by the Board of Directors,*)

Section 2. Adoption

Amendments so proposed at such duly held meetings shall (may) be submitted to the membership (made) by mail ballot, (by) and

shall require approval by (a) two-thirds (vote) of those voting, provided the proposed amendment(s) (amendment/amendments) shall have been printed in the Bulletin and that the ballots to be counted shall be returned to the chair of the vote counting committee postmarked not later than (*not be counted until at least*) one month after publication and ballot mail-out. The vote will be counted by a committee of at least two members appointed by the president and the results reported within two weeks of the closing date of postmark.

As amended Article X will read:

Article X — Amendment Procedure

Section 1. Proposal

Amendments to these By-Laws may be proposed by a majority vote of those voting at any regular or special meeting of the Society, or, amendments may be proposed by a majority vote of those voting at a meeting of the Board of Directors.

Section 2. Adoption

Amendments so proposed at such duly held meetings shall be submitted to the membership by mail ballot, and shall require approval by two-thirds of those voting, provided that the proposed amendment(s) shall have been printed in the Bulletin and that the ballots to be counted shall be returned to the chair of the vote counting committee postmarked not later than one month after publication and ballot mail-out. The vote will be counted by a committee of at least two members appointed by the president and the results reported within two weeks of the closing date of postmark.

Submitted by Dan Luoma, President

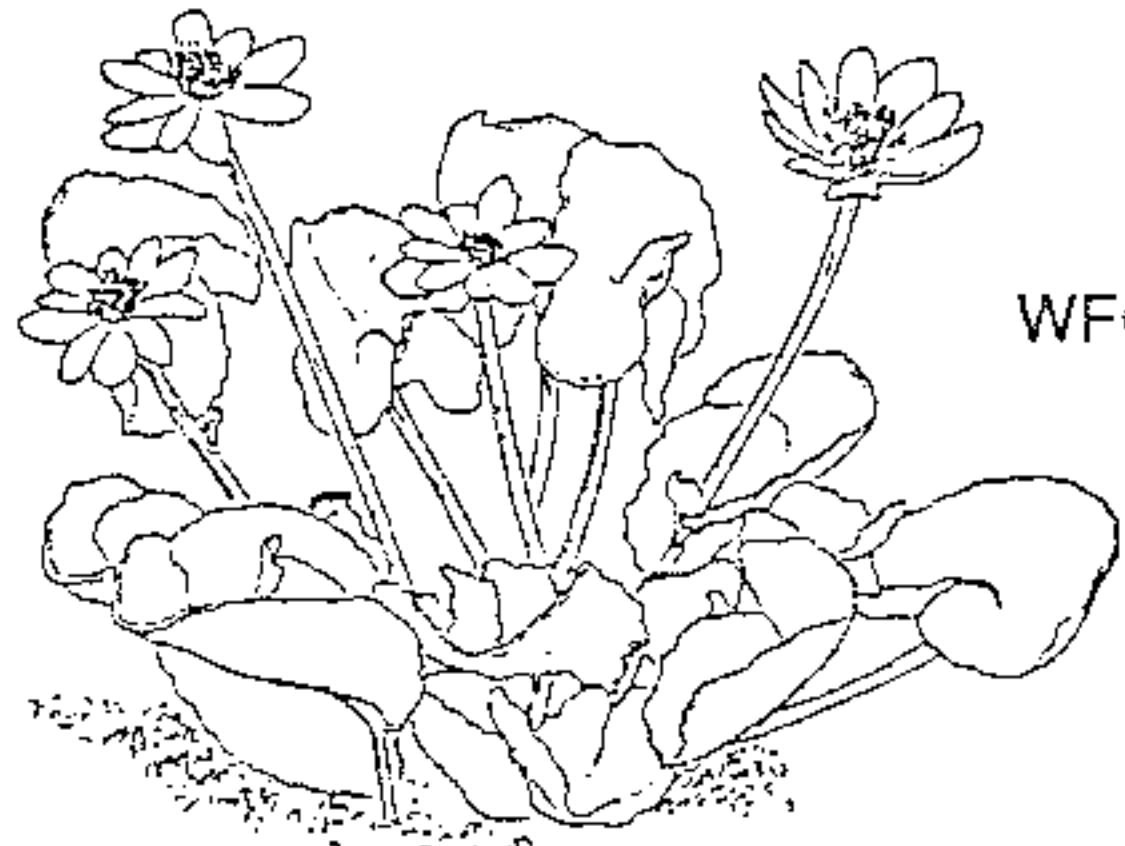
Flowers in the Forest

A Display of Oregon Wildflowers

Portland Chapter
Native Plant Society of Oregon

World Forestry Center

10 AM - 5 PM
Saturday and Sunday
May 14 and 15



WFC Admission: \$2.00 adults
\$1.00 18 yrs. or younger
\$1.00 seniors

The Audubon Society of Portland, at its April 6 annual banquet, recognized NPSO for our contribution "to the initiation and passage of Oregon's endangered species legislation". I was pleased to be able to represent NPSO at the banquet and to accept the award on behalf of our organization.

NPSO has been handsomely rewarded for dipping our toe into the shark-infested waters of politics-- not only did our bill pass, but the conservation groups that helped us so much during the legislative session are now recognizing us for our work. Not a bad deal. We are indebted to the Portland Audubon Society for their generosity.

Julie Kierstead
former Conservation Chair

Mothers Day Wildflower Show at Silver Falls

NPSO Willamette Valley Chapter will sponsor its eleventh annual Mothers Day Wildflower Show, Saturday and Sunday, May 7-8, at Silver Falls State Park. Hours will be 10 a.m. to 5 p.m. both days. Admission is free. The show will be in the Visitor Center.

Between 150 and 200 species of native plants and wildflowers, depending on the weather, will be collected by club members and displayed, together with their correct identification and a place-card of information about the plant.

Rare and endangered species will not be on display, but will be shown pictorially through a slide show on both Saturday and Sunday. For more information, call Ann Scully, show coordinator, at 873-8681.

SECOND ANNOUNCEMENT: CONFERENCE ON THE FUTURE OF STUDIES ON ENDANGERED SPECIES OF PLANTS IN THE PACIFIC NORTHWEST.

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AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, PACIFIC DIVISION (AAAS-PD)

JUNE 19, 1988 -- OREGON STATE UNIVERSITY -- CORVALLIS -- OREGON.

A HALF-DAY SYMPOSIUM OF TALKS DEALING WITH THE FUTURE OF STUDIES OF ENDANGERED PLANTS OF THE NORTHWEST REGION WILL BE OFFERED AS PART OF THE PROGRAM AT THE AAAS MEETINGS IN CORVALLIS, ON JUNE 19TH.

THE SYMPOSIUM IS INTENDED TO HIGHLIGHT THE STATE-SUPPORTED WORK ON BEHALF OF RARE PLANTS IN OREGON AND WASHINGTON, AND WILL INCLUDE TALKS BY STAFF MEMBERS OF THESE TWO STATE PROGRAMS. ROBERT J. MEINKE, BOTANIST IN THE OREGON DEPARTMENT OF AGRICULTURE, WILL GIVE A PRESENTATION TITLED: "PERSPECTIVES AND PLANS FOR RESEARCH THROUGH THE OREGON DEPARTMENT OF AGRICULTURE." MARK V. SHEEHAN AND JOHN G. GAMON, OF THE WASHINGTON NATURAL HERITAGE PROGRAM, WILL TALK ON: "NATURAL HERITAGE PROGRAMS AND THE

IDENTIFICATION OF DATA NEEDS FOR ENDANGERED SPECIES MANAGEMENT."

OTHER SPEAKERS ON THE PROGRAM WILL DISCUSS THE PECULIAR BIOLOGICAL PROPERTIES OF RARE AND ENDEMIC PLANTS, AND THE TYPES OF GENETIC AND MOLECULAR-BIOLOGICAL RESEARCH THAT CAN GIVE IMPORTANT INSIGHTS ON THE NATURE OF ENDANGERED SPECIES.

IN ANOTHER PART OF THE AAAS PROGRAM WILL BE A GROUP OF SHORTER SCIENTIFIC PAPERS THAT DESCRIBE STUDIES BEING DONE ON PARTICULAR RARE PLANT SPECIES OR ON AREAS IN THE NORTHWEST THAT ARE RICH IN SUCH PLANTS.

ANYONE WISHING TO ATTEND THESE MEETINGS CAN GET FURTHER INFORMATION BY WRITING TO DR. K. L. CHAMBERS, C/O DEPARTMENT OF BOTANY, OSU, CORVALLIS, OR 97331. PERSONS WHO ATTEND THE AAAS MEETINGS AND WHO REGISTER FOR THE SET FEE OF \$32, MAY HEAR OTHER SCIENTIFIC SYMPOSIA, SESSIONS OF PAPERS IN MANY FIELDS OF SCIENCE, PUBLIC LECTURES, OTHER SPECIAL EVENTS, AND FIELD TRIPS (FOR WHICH TRANSPORTATION COSTS ARE SEPARATE). THE PERIOD OF THE MEETINGS IS JUNE 18TH (DAY OF REGISTRATION) THROUGH JUNE 22ND (FIELD TRIP DAY).

CALYPSO BULBOSA

The orchid Calypso bulbosa grows in the boreal and temperate regions of North America and Eurasia. It can be found at coastal sites, among mosses in cool moist coniferous forests, or on subalpine slopes. Calypso, a monotypic genus, has four varieties: bulbosa in Eurasia, japonica in East Asia, americana in the eastern United States and most of Canada, and occidentalis in the western United States.

When Linnaeus first discovered the orchid in Sweden, he believed it belonged to the Cypripediums because of the shoe-like labellum and gave it the name of Cypripedium bulbosum. This specific epithet refers to the bulb-like underground stem called a corm. In 1805 Salisbury, a British botanist, introduced the orchid to England, and later established it as a separate genus, renaming the species Calypso borealis.

Calypso was the Greek goddess in Homer's Odyssey who became enamored of Ulysses when he was shipwrecked on the shores of her island, which was invisible to navigators. Through her powers of fascination, she kept Ulysses there for seven years before he finally returned to his wife and son. Perhaps the name suggests the irresistible charm of this flower for the orchid enthusiast or, as others have suggested, its near invisibility among the moss and litter of the dim forest habitat.

In 1842, Oakes, an American botanist, corrected the orchid's name to Calypso bulbosa. Some of the common names are Northern Calypso, Hider of the North, Fairy Slipper, Venus Slipper, Cyntherea, and Deer's-head Orchid.

Calypso bulbosa var. occidentalis is one of the earliest blooming spring flowers, pushing through the dead leaves, twigs, and other litter of the forest floor as soon as the winter snow has melted, yet it can also tolerate the high temperatures of the coniferous forests during the summer months.

The orchid begins its life cycle in late summer by producing, from the fleshy corm near the surface of the ground, a solitary dark green leaf, approximately 6 cm. long by 4 cm. wide, which winters through. This leaf is long-stalked, roundish in shape, strongly ribbed, and somewhat crinkly.

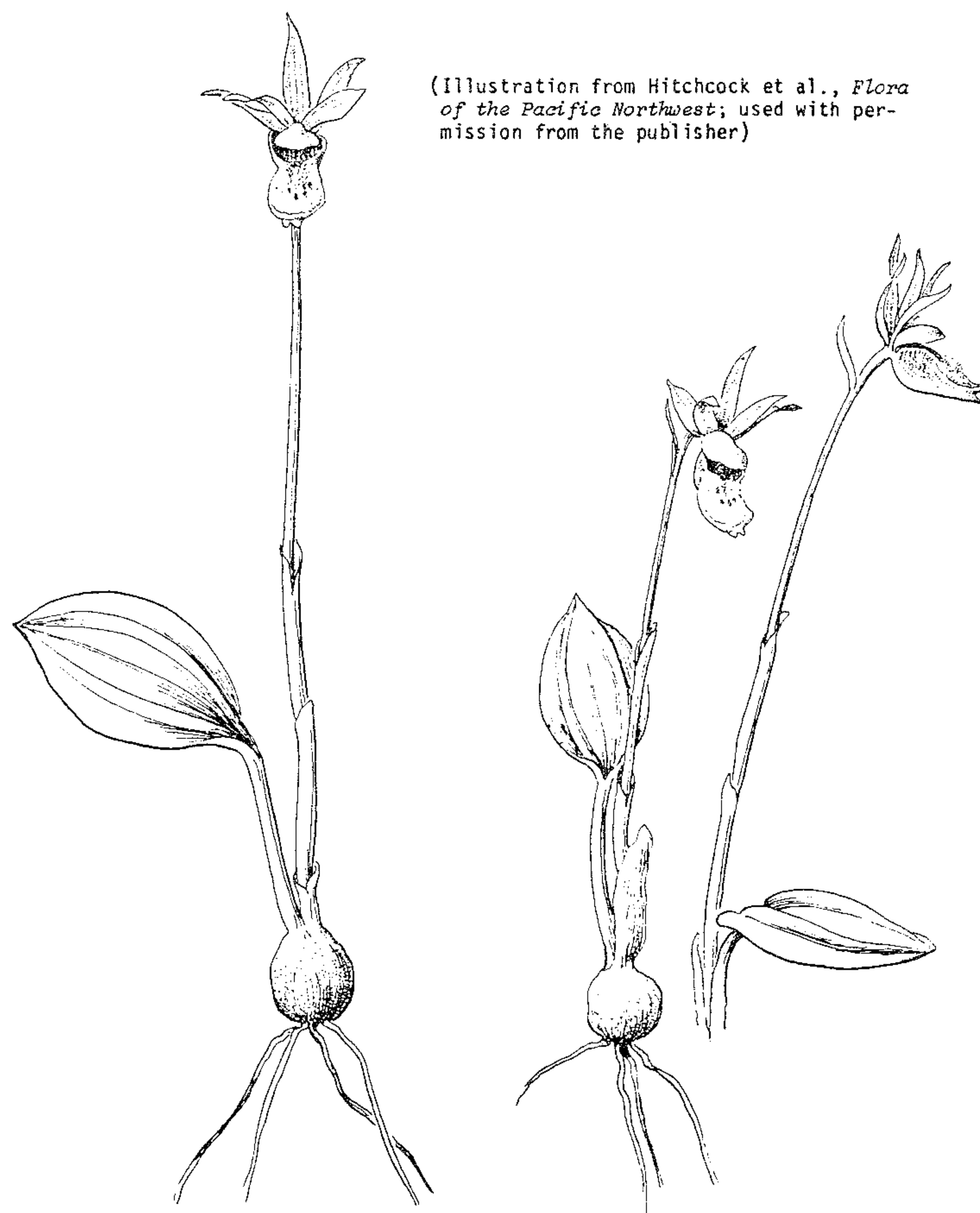
The next spring the corm produces an erect purplish scape, and the leaf gradually withers. Sheathed below by two or three membranous leaf scales, the scape is surmounted by an erect colored bract, from the base of which springs the flower on a slender drooping pedicel. The height of the plant is approximately 20 cm.

The sepals and petals of the flower are all alike, ascending, narrow and pointed, rose-purple or pink, suggesting the spread fingers of an uplifted hand. Below them juts out the convex top of the wide-winged column, also rose-pink, suspended like a canopy over the lip.

The pendant lip is large, shaped somewhat like a shoe with a long tapering toe, and is bicornate at the apex. In occidentalis three "horns" are pronounced. The whitish lip is vividly marked on the sides and on the inner surface with reddish brown spots and lines, and with several rows of hairs on the top surface. The hairs are white on a brown-spotted lip. There are four waxy pollinia, in two pairs, sessile on a square gland.

The root system of the orchid is shallow, and there is some evidence of an obligate mycorrhizal relationship, either in the seedlings or in the adults, or both. More research is needed on this aspect of the orchid's life history.

Calypso bulbosa is a generalized food-flower mimic. Though self-compatible, autogamy does not occur. Instead the orchid is pollinated by a variety of bumblebee species, even though it provides no reward. The bright pink coloration reflects ultraviolet light, and the flower has fragrance, especially in its early bloom, but no nectar. In fact, there has been some dispute over the presence of fragrance in Calypso orchids, observers in Washington claiming no fragrance while those in Oregon claim a "spicy" perfume. Recent studies



(Illustration from Hitchcock et al., *Flora of the Pacific Northwest*; used with permission from the publisher)

Calypso bulbosa

indicate that the fragrance is directly related to the age of the bloom and occurrence of pollination.

Research has shown that the pollinators are almost always newly-emerged bees who are unaware that the orchid provides no nectar. Variations in color and odor make it difficult for these bees to learn to recognize the orchid easily; until they do, they function as adequate pollen vectors. Frequency of bee visit or pollination event coincides with bumblebee population cycles, and specifically with the emergence and foraging of the queens who are the optimum size for pollinating these particular orchids. While seed set is low in *Calypso* orchids, the seeds produced are minute and numerous, and easily wind-dispersed over large areas.

Adapted from "Darlingtonia," the newsletter of the Northcoast Chapter of the California NPS; February 1988 issue. By Marcia Andrews.

LEIGHTON HO FUND GROWING

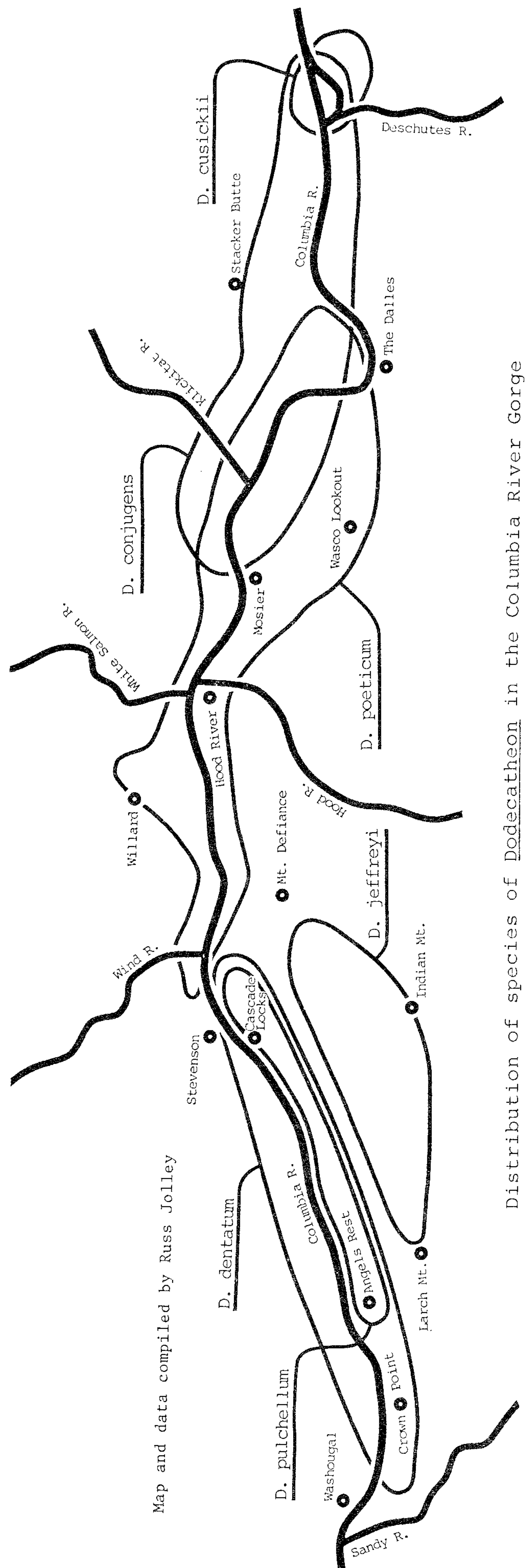
The NPSO Board, at its January meeting, established a special fund in memory of LEIGHTON HO, former Emerald Chapter President, who drowned in Hawaii December 20 (see NPSO Bulletin, Feb, '88, p. 13).

Monies have been pouring in from Leighton's many friends. Close to \$800 has been received thus far. The Leighton Ho Fund will be used for an NPSO Summer Research Grant. The grant will be called the Leighton Ho Memorial NPSO Grant, and the 1988 recipient will receive the award in a brief ceremony at our Annual Meeting at Silver Falls, June 25.

We hope that the fund will grow large enough to establish an endowment so that the Leighton Ho Grant can be awarded for several years at least. If Bulletin readers wish to contribute to the Leighton Ho Fund, please send your check, made out to NPSO, to:

Leighton Ho Fund
c/o Daphne Stone
Native Plant Society of Oregon
1934 Cleveland St.
Eugene, Oregon 97405

The following friends of Leighton have contributed to the fund thus far: Karen Nishimura, Jannell Sorensen, Margaret Hutchinson, David Calderwood, Stanton and Joan Cook, Rhoda and Glen Love, Evelyn and Lee Everett, Elaine Nishimura, Gary Hade, Sandy Poinsett, Janice and J. W. Gerdemann, Fanny and George Carroll, Thomas E. Mallory, Daphne and Jeffrey Stone, Wanda Manning, Jeff Herbert, Linda Romens, Cheryl Suter, Marcia Harlacker, Carlos and Linda Cabera, Jolene and Joel Boucock, Marcia Locke, Kim Stone and Bob Maeda, Jacque Larsen, Rita Bowman, Judith McClain, Peggy Fitzgerald, Timmie Bigornia, Grant Beardsley, Jo Hudleston, Nancy Scott, Roberta Roche, Marcia Brooks, Marisa Wampler, Steve Erfurth, Julie Schiller, Ron Davis, Fran Ross, Joel LeCaptain, Genny Haberly, Cheryl Wobbe, Amy Crook, Bev Leach, Mari Baldwin, Steve, Bethel and Lisa Edens, Jerry Wood, Leslie Weaver.



Map and data compiled by Russ Jolley

Distribution of species of *Dodecatheon* in the Columbia River Gorge

Native Plant Society of Oregon Guidelines & Ethical Code

GENERAL GUIDELINE: THINK TWICE. USE DISCRETION. A PLANT IN PLACE IS WORTH TWO IN THE HAND. LOVE THY FLORA.

I. CHAPTER GUIDELINES

- 1) Know your rare, threatened and endangered species. Know your fragile environments and unique biotic communities.
- 2) Be alert to threats to native plants and their habitats. Appoint watchdog committees to keep aware of these threats and inform the chapter.
- 3) Take action to protect native plants. Work with all groups and the general public to protect native plants and their habitats. Be prepared to salvage plants where they are threatened by outright destruction. Help eradicate particularly aggressive and successful exotic plants that threaten native plants. Take responsible outings.
- 4) Educate your members and the public about native plants, and encourage them to use good judgment in the study, enjoyment, and use of native plants.
- 5) Encourage your members to grow native plants only from seeds or cuttings.

II. OUT THERE AMONG THE PLANTS

- 1) Outings for whatever purpose must never endanger a plant population. Encourage nondestructive modes of learning and enjoyment: photography, artwork, scientific description, aesthetic prose and poetry, and so on.
- 2) On group outings (field trips, conservation activities, class field studies), group leaders must take responsibility for protecting native plants from the activities of the group. All participants should understand the goal of plant protection, the purpose of the outing, and the means by which they can make the least impact on plants and the natural habitat.
- 3) Know where endangered species are growing and plan outings with this knowledge in mind.
- 4) Respect private and public property. Do not trespass. Know the regulations for use of the land and natural resources--public or private--your group is entering.
- 5) Respect the habitat as a whole. Avoid disturbing wildlife, such as nesting birds and nesting hornets.
- 6) Be sensitive to the human foot as a threat to plants. Visits to fragile environments should be carefully planned. Students should be given adequate direction by their instructor, and excessive collecting should be discouraged. Better one person enter a fragile area to identify a plant than the whole group.
- 7) Collecting should be considered only when identification cannot be made in the field

or when it will contribute significantly to educational or scientific objectives. Collecting for whatever purpose should be done as inconspicuously as possible. Casual observers may not understand the reasons for collecting and may feel license to do likewise.

- 8) Collecting must never endanger a plant population. Collect seeds or cuttings in preference to whole plants. Do not collect underground plant parts except for identification purposes. Avoid excessive collecting: this calls for exercise of good judgment by the collector. Consider the use of rules of thumb for judging whether to pick or not to pick. Encourage group study of one specimen. Consider using weeds, garden species, or lab-grown specimens for educational purposes.

III. USING NATIVE PLANTS

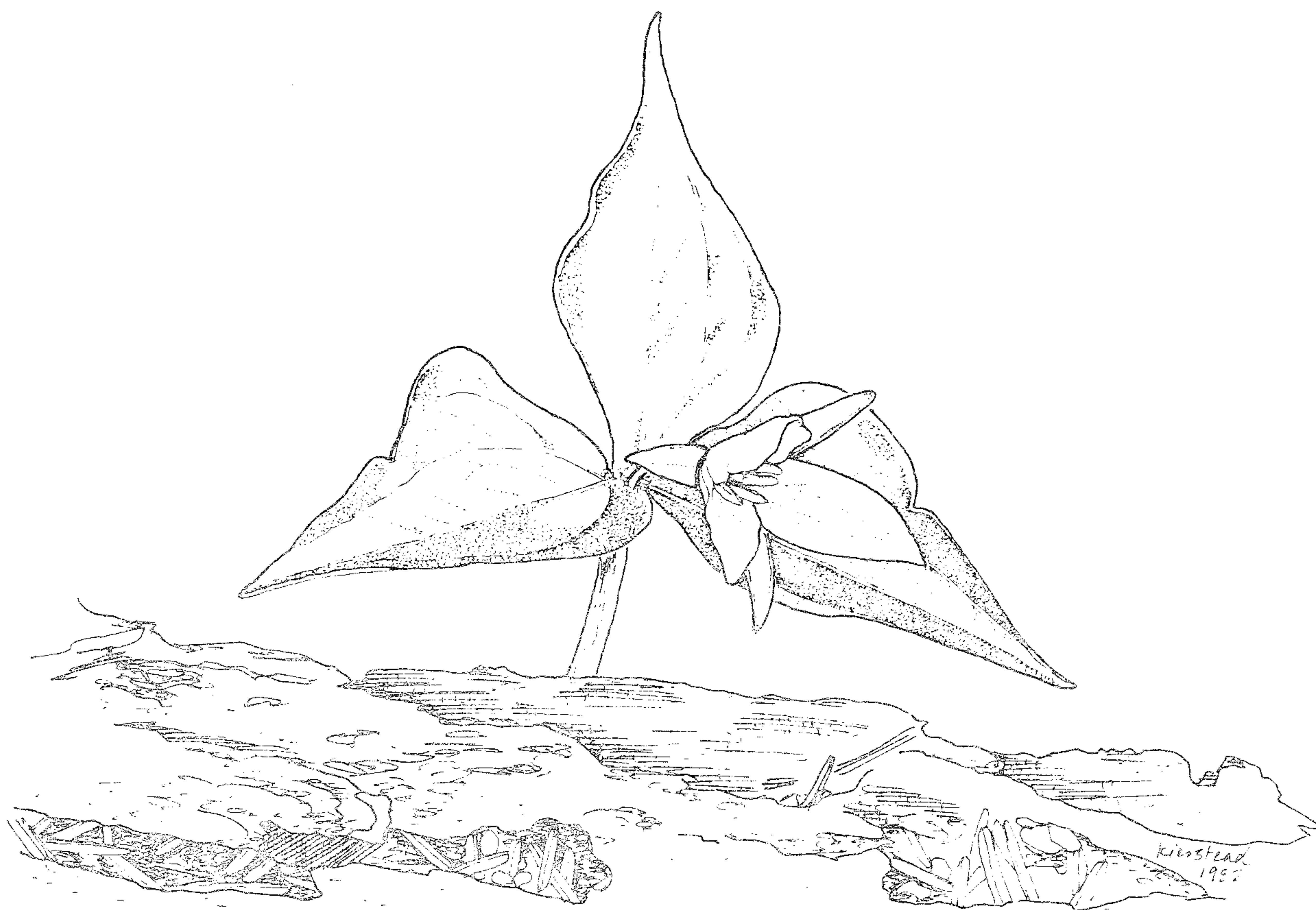
- 1) Use of native plants--in wildflower shows, plant sales, and horticulture--must never threaten their populations.
- 2) Native plant species for sale should be obtained by salvage, seeds, or cuttings--in that order of priority--and whole plants should never be dug up, except for salvage. Seeds should not be sold. Growers must exercise discretion in collecting seeds and cuttings to avoid endangering plant populations.
- 3) Native plants for sale should state on the label how obtained or grown. Chapters should consider certifying commercial growers who follow good ethical practice, and should urge the public not to buy unless plants were obtained or grown according to these guidelines.
- 4) The sale and use of particularly aggressive and successful exotic plant species, such as gorse, broom, and pampas grass, should be discouraged.
- 5) Salvage of native plants should be encouraged when their destruction is certain: at quarries, mines, dams, building construction sites, road construction sites. Salvage is not necessarily called for, however, on logging sites, some recreational areas, and rangeland. Salvaged plants should be kept potted long enough before sale to ensure that they will survive the shock of transplant.
- 6) Wildflower shows should make maximum use of their educational potential. Inform the public of the goals of NPSO: explain the guidelines your chapter follows in studying, enjoying, and using native plants--including guidelines followed in collecting for the show; consider using all other educational options (slides, artwork, publications, herbarium collections, news media, etc.); and continue the educational "life" of display materials after the show by donating them to schools, libraries, or other constructive uses.

With the first flush of flowers decorating Oregon's deserts & forests, it seems appropriate to remind ourselves that NPSO's *raison d'être* are conservation & understanding of Oregon's native flora. Although many of our members are interested in gardening with native plants, NPSO is not a garden club. Our Code of Ethics clearly does not condone the collecting of plants for personal use. This does not preclude growing plants from seed or carefully gathered cuttings. And if the seeds don't sprout, and the cuttings don't strike, the parent plant will still be intact in its wild home.

It is an unfortunate reality of the 80's that effective conservation must be accomplished in the political arena, because the decisions affecting the future of native plants are made by city officials, county commissions, and state & Federal agencies. It is especially important that, as NPSO enters the political fray, we keep our noses clean so no one can accuse our members of being threats to the flora we purport to save. After all, the act of joining NPSO implies tacit approval of its aims.

With NPSO-sponsored flower shows coming up, let's do our best to use the plants to their fullest. Invite special groups in for pre- or post-show educational programs. Advertise! Make sure copies of NPSO's Code of Ethics are posted around the show hall, so visitors come away with the right feeling about our organization. When everything is done, return those plants which can be returned (bulbous & rhizomatous plants, etc.), and make good pressed specimens of those which cannot. This means careful pressing and good label information about the site where the plant came from. When dry, the plants should be donated to a state herbarium. Little or no plant material should end up in the garbage.

Enjoy plants where they grow--you'll never see them in better surroundings than the places they call home.



Trillium ovatum
Drawing by J.R. Kierstead

**BOOK REVIEW: EAGERLY-AWAITED GUIDE TO
IRON MOUNTAIN FLORA BY ROSS & CHAMBERS
NOW AVAILABLE**

Wildflowers of the Western Cascades by Robert A. Ross and Henrietta L. Chambers, with drawings by Shirley A. Stevenson. March, 1988. Timber Press, 9999 SW Wilshire, Portland 97225. 142 pp, 182 color photos in 64 plates, over 100 line drawings, 6" X 9", softcover, ISBN 0-88192-078-9. Price \$19.95 plus \$3.00 shipping and handling for the first book, \$2.00 for each additional copy.

Those of us who knew that Robert Ross and Henrietta Chambers of Linn Benton Community College had been writing a flora of Iron Mountain have been eagerly awaiting the book's appearance, and now here it is, just in time for the spring wildflower season! Hurry to your bookstore for this beautifully-illustrated flora of one of western Oregon's most diverse wildflower areas. Ross and Chambers (Henrietta's husband is Kenton L. Chambers of OSU) and illustrator Shirley Stevenson have given us a most handsome and useful volume that will not only brighten our bookshelves and coffee tables but which can easily be carried into the field in pack or large pocket.

I am enthusiastic about a great many of the book's features. First of all, the 182 colored photos by Robert Ross are stunning. From the close-up of *Claytonia lanceolata* on the front cover to the gorgeous habitat shot featuring *Rhododendron*, *Cornus canadensis* and bear grass on the back, the photographs are a visual delight, with details of flower structure crisp and clear and colors bright and true (I understand the color separations were done in Japan!).

I also applaud the authors' organization of the volume. They begin with a 13-page introduction which gives the reader or Iron Mountain visitor a feel for the ecology of the site and an understanding of how the heterogeneous terrain is responsible for wildflower diversity. Hikers will also appreciate the map of Iron Mt. and environs. The remainder of the book is devoted to descriptions of over 270 species of Iron

Mountain flowering plants, arranged alphabetically by family. Most species are illustrated with a colored photo or a line drawing. Species descriptions include: type of plant, height, leaf shape, flower size and color, inflorescence type, fruit and seed characteristics and flowering time. To help explain the vocabulary, there is a 10-page illustrated glossary. Also included, to my delight, are notes on pollinators and chemical properties of some species.

I am especially pleased that Ross and Chambers chose to organize the species by family rather than by habitat or color. The taxonomic organization makes the book much more valuable as a teaching aid by bringing together species which share family and generic characteristics. I am disappointed however, that no key to the families was included; I think that would have been helpful, especially to students.

The many black and white line drawings by Shirley Stevenson show a nice feel for the main characteristics of the plants. Although Stevenson is no Jeanne Janish or Linda Vorobik, her drawings are lively and many give the pleasant impression of having been done from living specimens rather than herbarium sheets. I did find it difficult in some cases, however, to tell from the drawings how many stamens were present, where these were attached, and whether the petals were free or united.

Ross and Chambers' plant descriptions are excellent and in many cases downright fascinating. For example: A student in my class recently asked how the ancient Greeks came to name *Dodecatheon* ("twelve gods"), when they had never seen this strictly North American genus. Well, I found the answer to that conundrum on page 86, and if Bulletin readers also want to know, you will find that and much more to delight and instruct you in Wildflowers of the Western Cascades.

Rhoda Love
April 6, 1988

NPSO Pin and Poster Update

There are only two dozen Silver Anniversary NPSO pins left. They are still only \$2.00 each. Checks should be made out to NPSO and sent to Susan Kofahl, Box 151, Mosier, OR 97040.

Likewise, you can obtain a "Wildflowers of Oregon" poster by mailing \$4.95 per poster (including postage) or if sold in lots of 10, they are \$3.00 each plus postage. Both items make lovely Spring birthday presents or thoughtful graduation gifts for any budding botanist. Order now while supplies last. Orders will be served promptly, generally within 3 days of receipt, on a first-come first-served basis.

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NEWS OF OUR FRIENDS

Two of NPSO's friends in Salem, Martha Pagel and Phil Keisling, are in the news. Martha, as Deputy Director of the Division of State Lands during the 1987 legislative session, was instrumental in negotiating a compromise between proponents and opponents of the state endangered species bill. Martha was recently appointed to the directorship of the Division.

Phil Keisling, who as Legislative Analyst for Speaker of the House Vera Katz also worked very hard to bring proponents and opponents of SB533 together, is now running for state representative in District 12 of southeast and southwest Portland.

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BULLETIN

Editor Jan Dobak
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The NPSO Bulletin is published monthly. Copy is due by
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 News, articles, photos, drawings, & non-copyrighted
 materials are welcomed.

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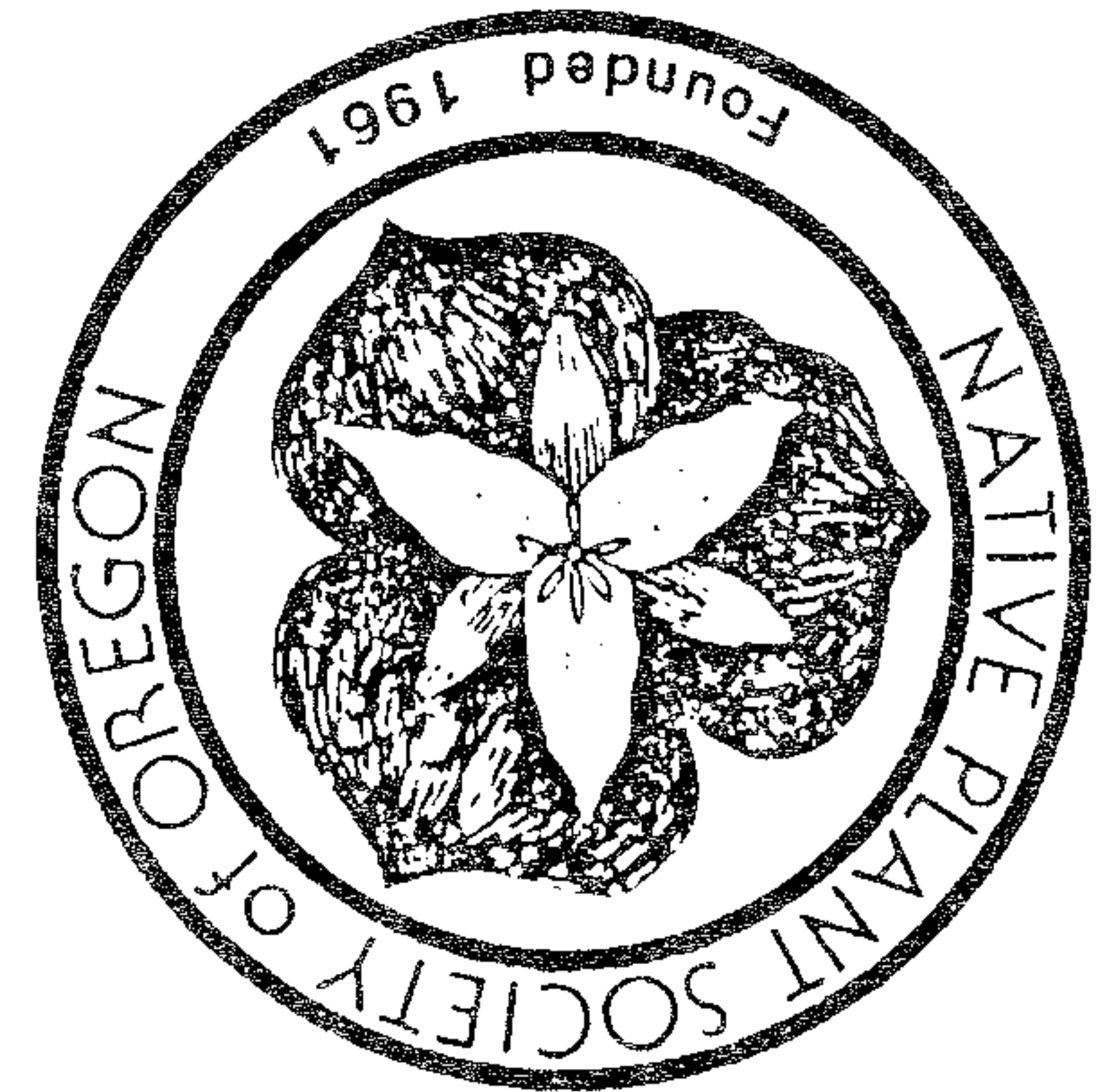
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