

Bulletin of the

NATIVE PLANT SOCIETY of OREGON

25th ANNIVERSARY 1961-1986

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

Volume 19 No. 10

October 1986

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CHAPTER NEWS

Blue Mountain

- - -

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

Corvallis

13 Oct., Mon.

Meeting, 7:30 pm. Cordley Hall, Room 29, OSU. Barbara Middleton will give a presentation on OLD GROWTH.

? ?

Field Trip, MUSHROOM COLLECTING somewhere in the Cascade Mountains in late October. Contact Dan Luoma (758-8063) for information.

Emerald

13 Oct., Mon.

Meeting, 8:00 pm. Amazon Community Center, 2700 Hilyard St. OREGON COAST RANGE PLANT COMMUNITIES AND ELECTRONIC MAPPING SYSTEMS. Miles Hemstrom, U.S. Forest Service Area Ecologist, will describe modern mapping techniques and how they are used to aid in predicting wildlife forage during succession, plant competition as well as other topics.

4 Nov., Tues.

Special presentation: MOUNT ST. HELENS RECOVERY. Biologist Peter Frezen was among the group of scientists to initiate research on the ash covered slopes. He has documented the patterns of vegetation reestablishment and surface changes on the mountain over the past 6 years and is compiling a Guide to the Mount St. Helens Volcanic Monument. His slide presentation will be at WISTEC, 2300 Centennial Blvd., Eugene, 7:30 pm. Cosponsored by WISTEC and NPSO, members of either admitted with no charge, others: General \$2, Seniors/Students \$1, Kids \$0.75.

High Desert

- - -

For information, contact Stu Garrett (389-6981).

Mid Columbia

1 Oct., Wed.

Meeting, 7:30 pm. Mosier School. SLIDES OF THE PLANTS OF NIGER (WEST AFRICA) presented by John Grettenberger.

North Coast

- - -

For information, contact Richard Smith (842-4324).

Portland

4 Oct., Sat.

Field Trip. MUSHROOM TRIP in the Mt. Hood area. Leave at 8:00 am from the K-Mart at 122nd and Sandy, south end of lot. Leader: Jan Lindgren (206-573-6918).

7 Oct., Tues.

Meeting, 7:00 pm. First United Methodist Church, 1838 SW Jefferson, Portland. Angie Evenden, botanist, will give a talk and slide presentation on RIPARIAN VEGETATION OF EASTERN OREGON.

11 Oct., Sat.

Field Trip along the COLUMBIA RIVER SHORELINE. Wear old shoes, it might be muddy. Leave at 8:00 am from the K-Mart at 122nd and Sandy or meet at 9:00 am at parking lot at base of Beacon Rock, Hwy. 14, Wash.

- 18 Oct., Sat. Field Trip to DESCHUTES RIVER, east end of the Columbia Gorge. Leave at 8:00 am from K-Mart, 122nd and Sandy, or meet at 9:30 am at the Portage Inn in The Dalles. Leader: George Lewis (292-0415).
- 25 Oct., Sat. Field Trip. We will end the field trip season with a SURPRISE TRIP. Meet at 8:00 am at Grant High School Park, across from 2524 NE 34th. Leader: Charlene Holzwarth (284-3444).

Siskiyou

- 9 Oct., Thurs. Meeting, 7:30 pm. Room 171, Science Bldg., SOSC. Dr. Paul Lemon, retired Professor of Plant Ecology at the State University of Albany, NY, will give a slide presentation and discussion of the palm species, Coco-de-Mer.

Willamette Valley

- 20 Oct., Mon. Meeting, 7:30 pm. First United Methodist Church, Carrier Room. Don Eastman will speak and show slides on RARE AND ENDANGERED PLANTS OF OREGON.

Wm. Cusick

- - - For information, contact Andrew Kratz (963-9358).

NPSO BOARD MEETING OCTOBER 11

Our fall Board meeting will take place Saturday, October 11, 11am to 3pm at Elmer's Pancake House in Bend. Many thanks to Stu Garrett, President of our High Desert Chapter who arranged the meeting place and time.

President Rhoda Love is back from Europe and reports that a number of very interesting and important items are on the agenda for this meeting.

Our NPSO Board consists of 23 voting members: President, Vice President, Secretary, Treasurer, Immediate Past President, 10 Chapter Presidents, Membership Chair, Bulletin Editor and 6 At-Large Members of the Board of Directors. It is also hoped that all Committee Chairs will attend the Board meetings.

Rhoda reminds us that it is very important for Chapter Presidents to attend these meetings so that members are informed in a timely manner of Society business. Chapter Presidents who cannot come are urged to send alternates.

Posters, notecards, T-shirts and pins will be available at the meeting to be distributed to chapter representatives for good holiday sales.

Naturally, any NPSO member is cordially invited to attend any Board meeting. Elmer's Pancake House is located on Highway 97 in downtown Bend approximately 5 blocks south of the intersection with Highway 20. Lunch can be purchased at Elmer's or you may bring a sack lunch. We look forward to an interesting and productive meeting in beautiful Bend on October 11.

A CALL FOR ARTEMISIA SEED

Researchers at Walter Reed Army Hospital are currently conducting investigations into the anti-malarial properties of extracts from Artemisia species. Fresh plant materials for sampling are being grown at the Denver Botanic Gardens and other locations from seed offered by other botanic gardens throughout the world.

Native to the dry steppe regions of the world where neither botanic gardens nor collectors abound, it is understandable why this project is a massive one and that only 70 Artemisia species have been sampled to date out of the 250 to 400 worldwide species.

Your help in gathering seed of all species, subspecies and varieties is requested. Only enough seed to grow 25 plants is needed and the correct identification of the plant is not absolutely necessary. Identification can be made at a later date upon blooming in the greenhouse. Unidentified seed should be accompanied, however, with good information regarding collection site (e.g., state, county, elevation, etc.).

Please send to: Jim Borland
Plant Propagator
Denver Botanic Gardens
909 York Street
Denver, CO 80206

W E L C O M E N E W M E M B E R S

BLUE MOUNTAIN
Bob & Jill Wilson

HIGH DESERT
Sarah Mason

PORTLAND
Georgia Leupold Slack

CORVALLIS
Loverna Wilson

MID COLUMBIA
Barbara Robinson
Bill Sturman

SISKIYOU
Greg Johannsen

OREGON RARE PLANT CONFERENCE ANNOUNCEMENT

The 1986 Oregon Rare and Endangered Plant Conference will be held the weekend of October 18-19 at the Erb Memorial Union, Room 167, on the University of Oregon campus in Eugene. The Conference will start at 10:00 a.m. Saturday morning. A \$5.00 donation is asked to help cover expenses such as mailings, coffee and doughnuts. For this donation, you will receive a copy of the booklet, "Rare, Threatened and Endangered Plants and Animals of Oregon". The conference is sponsored by the Oregon Natural Heritage Data Base, the University of Oregon Herbarium, and the Berry Botanical Garden Cryogenic Seed Bank.

Saturday is reserved for the discussion of additions, deletions and any other changes to the plant lists in the booklet, "Rare, Threatened and Endangered Plants and Animals of Oregon". This will be our last major gathering in order to talk about the lists before it will be republished in the spring of 1987. If you have recommendations for additions, please come prepared with specific site location/s, habitat description, population and ecology data. Blank sighting reports will be available at the conference if you wish to complete the forms at that time. If you have recommendations for deletions, please be prepared to explain your reasoning. If you are recommending deletion of a plant also on the Federal Notice of Review, specific written documentation may be necessary.

On Sunday we plan to cover five main topics: ① the status of Oregon Rare Plant Legislation, 2) the Oregon Natural Heritage Data Base and its relation to the State Heritage Program, ③ plants recommended to the U.S Fish and Wildlife Service for Section 6 money, 4) seed collection, the Berry Botanic Seed Bank and the Center for Plant Conservation, 5) species management guides and habitat management plans, and ⑥ any other concerns.

If you plan on coming, RSVP, either by phone or drop us a note. And, if you have any questions or concerns, please contact Sue Yamamoto or Jimmy Kagan at the Oregon Natural Heritage Data Base, 1234 N.W. 25th, Portland, OR 97210, ph # (503) 228-9550.

SUPPLEMENTAL EIS ON BLM WILDERNESS STUDY AREAS DUE IN NOVEMBER

The State BLM Office has announced that the Supplemental EIS on the Oregon BLM wilderness review is planned for release in November, with public comment to be received through January.

The new EIS will review areas determined to be incorrectly eliminated from the original wilderness EIS. The lands include many acres of split-estate lands, where the BLM controls the surface but other parties hold the mineral rights, as well as a few of the many areas that were inventoried and eliminated for a supposed lack of wilderness values.

Hearings have been set around the state in the first two weeks in January, including ones in Eugene and Portland.

THE SAGE ADVISOR

A brief newsletter for the conservation activist interested in Oregon's desert resources is now available. THE SAGE ADVISOR is sponsored by Portland Audubon Society, The Wilderness Society, and the Oregon Natural Resources Council. Its intent is to fill a niche not addressed by other conservation newsletters. THE SAGE ADVISOR will publish an interorganizational calendar of field trips to Wilderness proposals and other areas of significance in the Oregon Desert. The newsletter will contain short pieces on BLM and other agency management actions and management proposals.

THE SAGE ADVISOR is for the active conservationist interested in getting out into the country and knowing how public resources are being managed on an up to the minute basis. It is a working tool for those interested in keeping Oregon Oregon.

For subscriptions please send just \$5 per year (first year) to: THE SAGE ADVISOR, 4005 SE Grant Ct. Portland, OR 97214.

SAVING HISTORIC PLANT VARIETIES

According to an Associated Press story by Dorothy Gast, about 100 to 200 farmers and gardeners from several states, including Virginia, have joined together in planting and saving the seeds from historic plants from the United States and abroad in an effort to keep thousands of varieties from becoming extinct. This network was recently formed by the Center for the Study of the American Family Farm. The center is based in New Market, Virginia. (This article appeared in the Summer 1986 Bulletin of the Virginia Wildflower Preservation Society.)

DESERT CONFERENCE IX NEXT APRIL

The annual Nevada, Idaho, Oregon interorganizational Desert Conference will be held at the Malheur Field Station south of Burns, Oregon on April 24, 25 and 26 of 1987. Those dates are the last Friday, Saturday and Sunday of April.

The theme of the Conference will be DESERT WILDERNESS. The first three annual Desert Conferences emphasized that theme and were also held at the Field Station.

April is a long way away, so why do people need to know about the Conference already? Because there will be a contest for the best wilderness proposal presentation.

The winner of the contest will receive an all expense paid trip for two down the rough and tumble upper Owyhee River with veteran Idaho guide Jerry Hughes. This is the trip of a lifetime down one of the largest wild areas in the lower 48.

For more information, contact Don Tryon at P.O. Box 848, Bend, OR 97709.

(OOPS!!! Due to an unfortunate error in printing in the September Bulletin, the first part of this article was left out. So here is the entire article including what was to have been page 98.)

MINOR FIELD COLLECTORS IN THE PACIFIC NORTHWEST

by

Edward P. Thatcher

In an earlier account this writer has focused on six major field collectors who travelled widely within Oregon, Washington, and Idaho and who left within the Pacific Northwest region their collections, their field notes and their correspondence.* I have called them resident or indigenous collectors. They have deserved prior, full consideration, for several genera and many species have been named for them and by them.

As a sequel, in a series of short papers, I wish to bring into focus the work of some minor collectors who have not received as much attention as those better known major collectors. Some of these lesser known field collectors were also adult residents who left their collections and written records of their lives here. Many of these neglected botanists were associated as contemporary field collectors, as correspondents and as intimates of the major collectors. Several of the minor field botanists came for only a matter of weeks or days of a single season and left, to be well known as chief contributors to floras elsewhere. Of these in the latter group, often too little is known of their mission and activities in the Pacific Northwest. In this series I wish to point out those names for which further examination should promise discovery of more life facts.

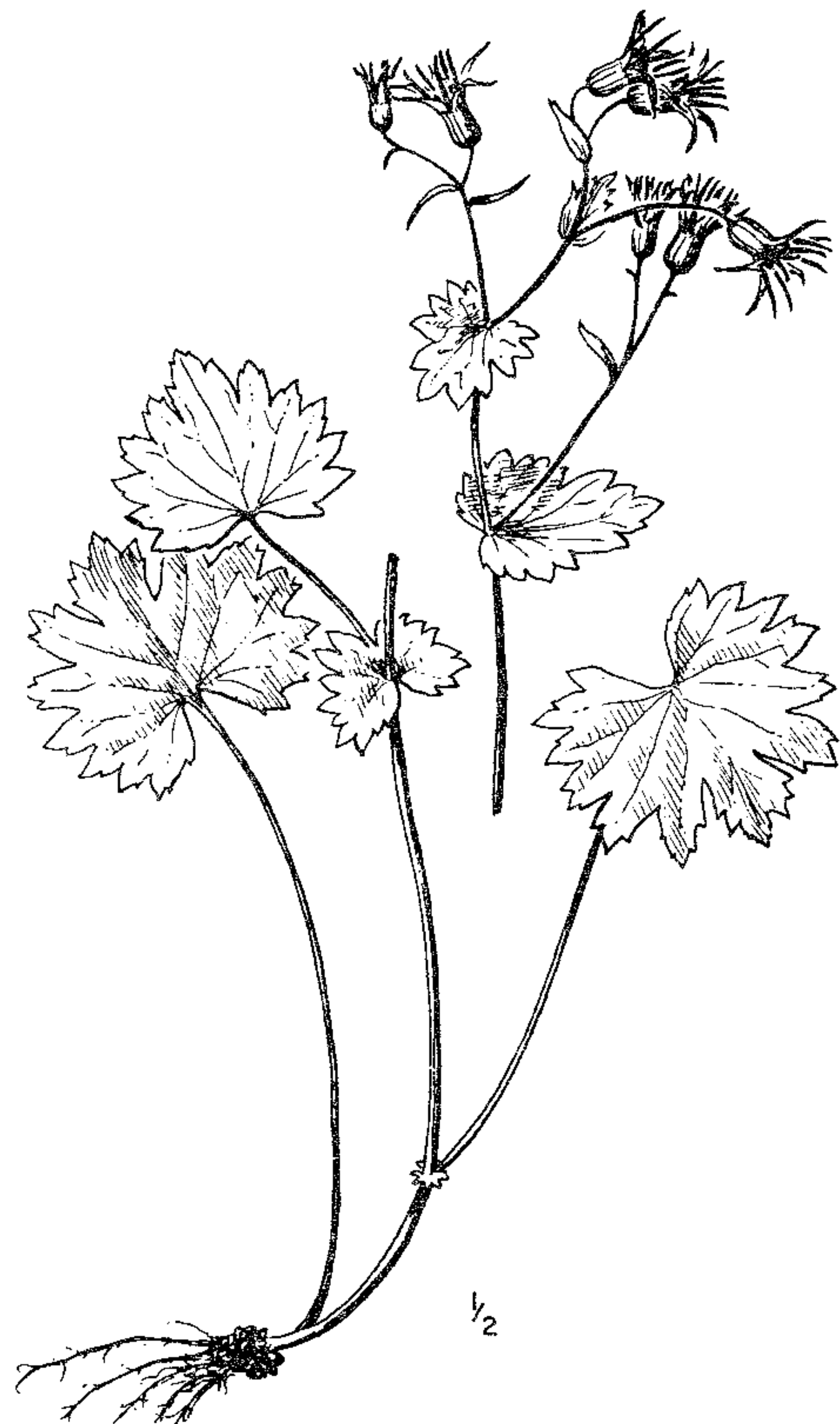
Appearing first in an impartial order of Oregon's minor collectors is Elmer Ivan Applegate, 1867-1949. He was a son, or grandson, of one of three Applegate brothers who came in 1843 to southern Oregon from Missouri. He was born near Ashland in Jackson County, residing there and in Klamath Falls until he became acting curator of the Dudley Herbarium, Stanford University, 1927 to 1949. While in that position, he corresponded with several other Oregon collectors: L.F. Henderson, A.F. Sweetser of Eugene, and Lilla Leach of Portland. From early correspondence of his with Sweetser, one may learn he was greatly interested in the distribution of the genus Erythronium - fawn lily - in southwestern Oregon. He published two scientific papers: "Plants of the Lava Beds National Monument", 1938, and "Plants of Crater Lake National Park", 1941. The chief source of his livelihood while living in Klamath Falls is unknown to me.

At least two plant species of our region have his name attached to them: Erythronium oregonum Applegate and Castilleja applegatei Fernald, Applegates paintbrush of central and southern Cascades. Only his plant collection is held at the Dudley Herbarium, Palo Alto, California. Much more should eventually be known about this field botanist with the well-known family name of Oregon pioneers.

Henry Bolander, 1831-1897, born in Germany, is best known for his collections and studies of both higher plants and lower forms in California. He was the state's botanist for the California Geological Survey, 1864-1871. Then later the state Superintendent of Schools, 1871-1875. From 1883 until his death, he lived in Portland, Oregon, where he taught in a private secondary school for ten of those years. The genus, Bolandra, of the Saxifragaceae was named for him by Asa Gray and Sereno Watson, his correspondents at Harvard. Bolander collected it and many other plants in the lower Columbia River Gorge while on short day-light trips out of Portland.

Willis Jepson, early twentieth century botanist of California, once credited Bolander with thirty-seven specific epithets: bolandera or bolanderi. In the Hitchcock-Cronquist volume of the Pacific Northwest flora there are four species named for him: one each in Juncus, Phacelia, Poa and Senecio.

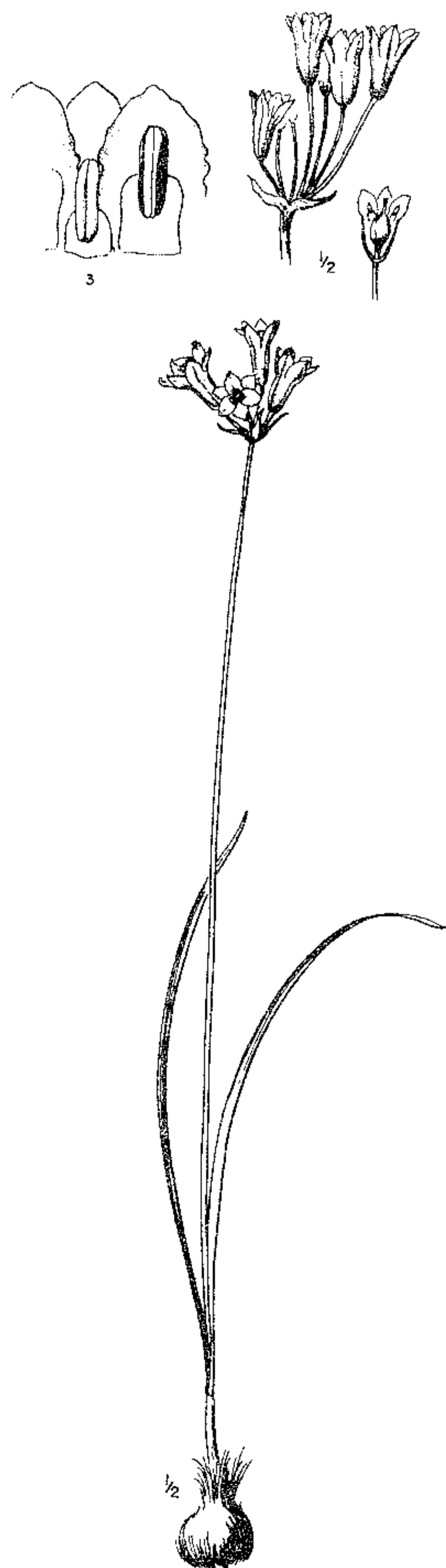
Among the manuscripts held by the University of Oregon Library, there is reported, by a correspondent of Sweetser, a delightful story about Bolander. If true, and after third-hand it could be regarded as apocryphal, it certainly attests to his devotion as a field collector. On a train trip returning to Portland from Salem, he spotted from the window a saxifrage unknown to him. At the next stop he left the train, walked back along the right of way, collected the plant and returned to the station to await the next train. Had it been in more recent times, we would express the hope he also had his sleeping bag/bed roll.



Bolandra oregana

There are brief biographies and a portrait of Bolander in the Sweetser collected manuscripts at the University of Oregon Library. Also in the Sunday Oregonian for August 15, 1954, and in the now defunct botanical series, Erythea, volume 6, 1898, there are excellent full accounts of Henry Bolander. The greater part of his California-made collections remain with the state of California Geological Survey. Of his Oregon collections made after 1883, there is an apparent lack of knowledge.

Elihu Hall, 1820-1882, an Illinois farmer, spent the summer of 1871 in Oregon. He wrote one paper for a botanical journal. In that he tells in considerable detail of his travels and collections in Oregon. From that we learn that he spent most of his time in the mid-Willamette Valley and in the lower Cascades at the same latitude. That paper in Botanical Gazette, Vol. 2, 1877, bears a marvelous title, employing three four-syllable, seldom seen correctly used adjectives: "Notes on the arboreous, arborescent and suffruticose flora of Oregon." (Don't you love that



Brodiaea howellii

woody mouth-ful?) Apparently, Hall sent most of his collections of that summer, 1871, to Asa Gray at Harvard. That distinguished taxonomist published in 1872 a long paper enumerating seven hundred species of Hall's from Oregon, mostly herbs. At the conclusion of that forty page paper of plant lists, Gray states that there will later follow an account of Hall's mosses, ferns and fungi.

The Chicago Museum of Natural History - the Field Museum - possesses his plant collections. A rapid scan of Hitchcock and Cronquist indicates there are yet several species "hallii" in our flora. They are in genera Agrostis, Carex, Cirsium, Haplopappus, Juncus, and Viola.

Joseph Howell, 1830-1912, was more of a down-home Multnomah County farmer than his younger brother, Thomas (1842-1912). Because of his long-term, persistent field collecting on the Cascade peaks and in our south-western counties, Thomas is justifiably recognized as a major collector. These brothers often collected together in the Portland area out to Hood River and likewise across the Columbia in Washington. Thomas ranged more widely, for greater periods of time and during every collecting season. Both, with the help of an older brother, kept their parents' original land claim farm on Sauvies Island in production, although as old photographs show, not always above Willamette flood waters.

Joseph's collections in northwestern Oregon and sporadically in the southwestern counties account for ten species discovered by him. These were named by Thomas Howell and the eastern professional botanists, Watson, Engelman, Piper, Greene, J.M. Coulter, with whom the brothers corresponded. Some of those that Joseph first collected still bear the specific name, howellii, although the genus name of the original description has been altered. Hookera howellii is now Brodiaea howellii and his Claytonia is now Montia howellii. He collected a new milk vetch near Hood River which is still Astragalus hoodianus Howell.

Persistent library search in the manuscripts of Sweetser, Gorman and Henderson at the University of Oregon Library shows that in the above cases Joseph, not Thomas, was the first collector. It was no doubt, a brotherly team, for Thomas, the one who was more aggressive toward the eastern botanists, carried on the correspondence with those most literate Latin and English describers. Because of the efforts of their devoted friends and field associates, L.F. Henderson and Martin Gorman, the collections and correspondence of both Howells are in safe keeping at the University of Oregon.

(Dr. Thatcher is an Emeritus Professor at the University of Oregon in Eugene.)

*Thatcher, E.P. "Indigenous Botanists of the Northwest" NPSO Bulletin XVI (6):8-11, June 1983.

The last Sunday in October will be the date of the 5th annual MT. PISGAH ARBORETUM FALL MUSHROOM SHOW AND PLANT SALE.

"Mushroom hunting is like fishing -- different each time," says Freeman Rowe, a man who ought to know.

Rowe, the Lane Community College mycology instructor, and the students in his classes conduct a week-long mushroom hunt each fall which produces the 200 or more species displayed at the show.

Weather conditions are crucial to mushroom growth. This year's long, hot, dry summer will affect production, says Rowe, as will the arrival of fall rains and colder weather, but precisely what the effects will be "is impossible to predict."

All specimens displayed at the show are gathered in Lane County, from the high Cascades to the coastal rain forest, an area about the size of Connecticut. "We pretty well cover the county," says Rowe.

As in the past, the show will feature cider pressing, guided trail hikes, refreshments and the sale of garden and house plants.

The highlight of the event, as usual, will be the mushroom display. The fungi are always stunningly arranged on beds of mosses, lichens, and autumn foliage. Each mushroom will be labeled with its scientific and common name and other pertinent information.

Mushroom cookbooks by Love, Mandell and Mayrsohn will be for sale. Off the press just in time for this year's show will be a new booklet about local mushrooms by Rowe.

Admission to the show is free, but donations to the Arboretum are welcome. The event is a major fund-raiser for this non-profit organization which offers outdoor education to local school children.

The Arboretum is located close to Eugene and Springfield east of Interstate Highway 5 via the 30th Avenue exit. Follow old Franklin Boulevard and Seavey Loop road to the show, 10am to 4pm, Sunday the 26th.

A NEW GUIDE TO GROWING NORTH AMERICAN NATIVES

A Garden of Wildflowers by Henry W. Art (1986) is a richly illustrated guide to growing 101 native North American species in garden or naturalized settings. Information on wildflower culture and propagation is given along with lists of suppliers, botanic gardens, and references. Ecology, culture, propagation, companion planting, and other information is featured for each species. Many useful charts and tables are included.

This 290-page publication is available in paperback for \$12.95, including tax, shipping and handling. To order, send your request (including book title) with a check made payable to the Virginia Wildflower Preservation Society (VWPS), to VWPS Orders, P.O. Box 844, Annandale, VA 22003.

(This article appeared in the Summer 1986 Bulletin of the Virginia Wildflower Preservation Society.)

MALHEUR CANAL PLAN

The 1980's have seen Malheur Lake, the heart of the Malheur Wildlife Refuge, increase from about 50,000 surface acres to 180,000 acres. The Corps of Engineers became involved and in August of 1985 produced a Reconnaissance Report that recommended a 17 mile canal that would cost 50 million dollars and seriously damage the largest freshwater marsh in the West.

The Corps has been drafting an Environmental Impact Statement that will be available toward the end of September. The study will include four basic options with variations; a total of about twelve alternative courses of action are being considered. Conservationists want the marsh protected in its natural state and the Refuge enlarged to include flooded lands.

For a copy of this important plan write to:

Department of the Army
Walla Walla District, Corps of Engineers
attn: Witt Anderson
Building 602, City-County Airport
Walla Walla, WA 99362-9265

509-522-6633

THE AUDUBON SOCIETY NATURE GUIDES - WETLANDS

This new volume is a comprehensive field guide, illustrated with more than 600 superb color plates of the plants and animals that inhabit the wetlands of North America. One of a series of seven volumes covering all the major natural environments of the continent; the other volumes feature Eastern Forests, Atlantic and Gulf Coasts, Deserts, Grasslands, Western Forests, and the Pacific Coast.

Part of Wetlands offers an authoritative commentary on the ecology of nine principal types of wetlands: bogs, cypress swamps, lakes and ponds, southern bottomland hardwood forests, emergent wetlands (marshes) rivers and streams, northern swamps and floodplains, shrub swamps, and the Everglades.

Color plates of insects, birds, mammals, fishes, reptiles, trees, and wildflowers that are characteristic of these natural regions are found in Part II. These are followed, in Part III, by full descriptions of each species, enhanced by black-and-white drawings and maps.

Wetlands by W.A. Niering 1985. Knopf. N.Y. 638 pp. \$14.95. A Chanticleer Press Edition.

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1920 Engel Ave. NW, Salem, OR, 97304; 585-9419
 Membership in the Native Plant Society of Oregon is open
 to all. Membership applications & changes of address
 (including old address & zip code) should be sent to the
 membership chair.

BULLETIN

Editor Jan Anderson
 1960 Lovejoy #2, Portland, OR, 97209; 248-9242

The NPSO Bulletin is published monthly. Copy is due by
 the 10th of the month & should be sent to the editor.
 News, articles, photos, drawings, & non-copyrighted
 materials are welcomed.

GUIDELINES FOR CONTRIBUTORS

The Bulletin is not typeset; therefore typed,
 camera-ready copy is much appreciated. But
 no submission will be rejected because it is
 not typed. Please proofread & check facts.

DEADLINE: 10th of each month

FORMAT: Copy should be typed in 4 1/4 inch wide
 columns, of any length. Author's name & chap-
 ter affiliation (or other organization) are
 typed at the end of the article. There is no
 standard paragraph treatment; one of these
 is suggested:

* for long articles, double space between
 paragraphs, but do not indent the first
 word of the paragraph

* for short articles or short paragraphs,
 when double spacing looks odd, indent
 the first word of the paragraph instead

Type your own headline, centered, all caps.
 In case of special formats, e.g. plant keys,
 you are free to choose the layout.

CREDITS: For each submission, provide

* title

* author--specify whether byline is desired
 for news items

* instructions as to whether item is to be
 used in entirety or excerpted at editor's
 discretion

* source & date if item is not original

ILLUSTRATIONS: black & white prints, ink
 drawings, woodcuts, halftones, et al. We
 welcome small doodles as well as larger
 efforts. Please give source & date, if not
 original.

SCIENTIFIC NAMES should follow Hitchcock &
 Cronquist's Flora of the Pacific Northwest
 where possible. Use of both scientific &
 common names is encouraged. Genus & species
 names are underlined or italicized.

RETURN OF ORIGINALS: Manuscripts & illustra-
 tions will not be returned unless it is
 requested.

The Bulletin is published as a service to
 NPSO members & the public. Your suggestions
 & comments are always welcome.

#

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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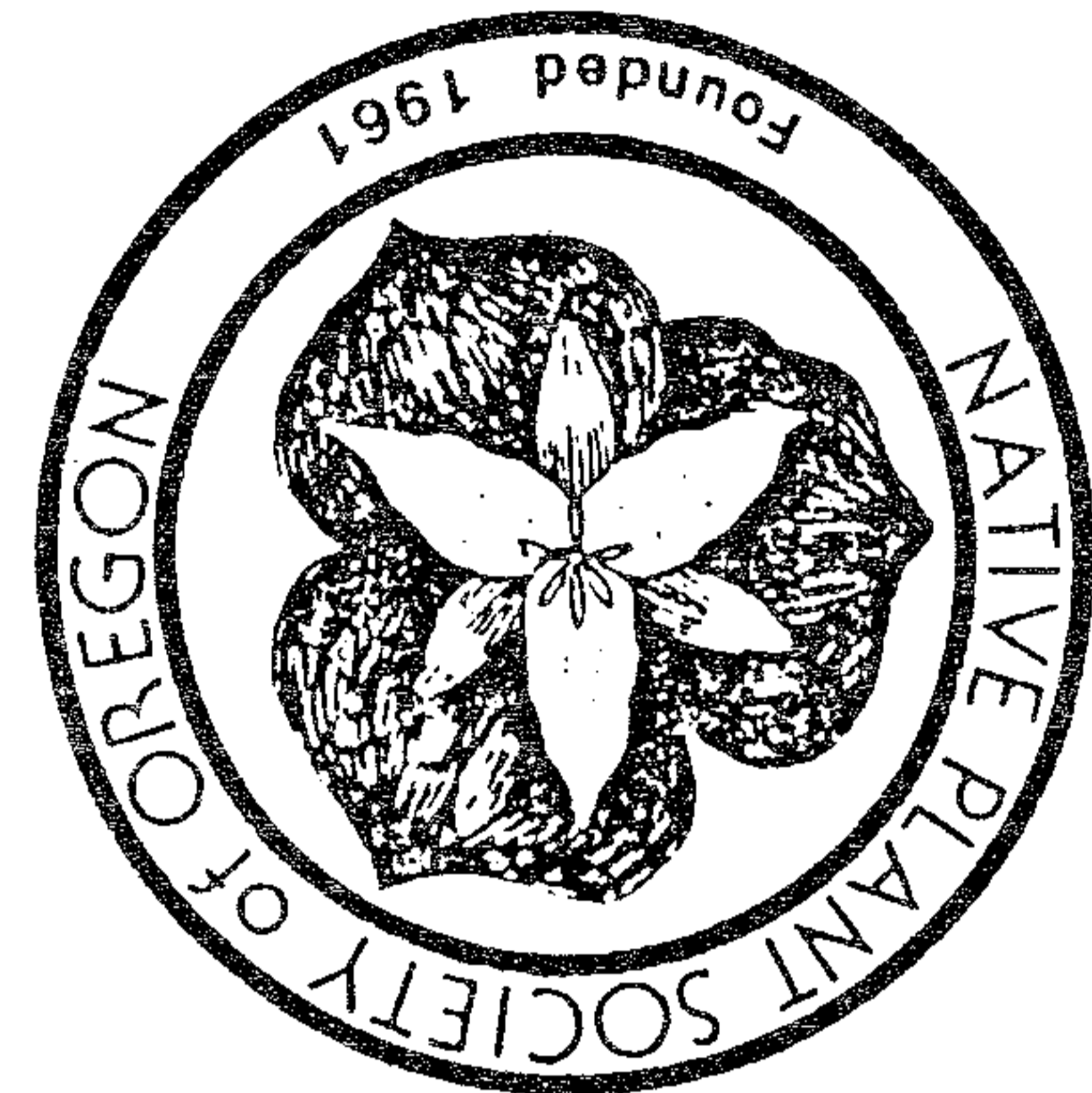
* DUES include monthly news bulletin. Full membership runs from January through December. Quarter member-
 ship runs from September through December.

- | | | |
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| () NEW | () QUARTER MEMBERSHIP (\$2.50) | () RENEWAL |
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| () Regular 10.00 | () Patron 100.00 | |
| () Family membership 15.00 | () Life member 500.00 | |

*CONTRIBUTIONS: Jean Davis 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 & contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form
 & full remittance to: MARY FALCONER, NPSO MEMBERSHIP CHAIR, 1920 Engel Ave. NW, Salem, OR 97304.

TIME DATED MAIL



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Portland, OR 97209

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