

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. 1

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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

17 Jan., Tues.

Meeting. 7:30 pm at Room 150 Morrow Hall, BMCC. A presentation by Gordon and Joy George of slides taken by the late Danny On.

Corvallis

9 Jan., Mon.

Meeting. 7:30 pm at Rm. 4083 Cordley Hall, OSU, Corvallis. Slide and lecture presentation on "The Mysteries of the Monotropeidae," by Dan Luoma.

Emerald

9 Jan., Mon.

Meeting. 7:45 pm at Amazon Community Center, 2700 Hillyard St., Eugene. Slide show on "Wildflowers of the Willamette Mountains," by Peter Zika.

13 Feb., Mon.

Meeting. 7:45 pm at Amazon Community Center, 2700 Hillyard St., Eugene. Slide show on "A Botanical Excursion through China," by Ed Alverson.

High Desert

For information, contact Joyce Bork (389-5579).

Mid-Columbia

4 Jan., Wed.

Meeting. 7:30 pm at Mosier School. Doug Daoust, silviculturist with the Mt. Hood National Forest, will relate the beargrass commercial foraging issue to us with proposal for monitoring future activity.

1 Feb., Wed.

Meeting. 7:30 pm at Mosier School. Keith Chamberlain will present his most recent slides, featuring many plants from the Mt. Adams vicinity.

North Coast

5 Jan., Thurs.

Meeting. 7 pm at State Office Building, 3600 3rd St., Tillamook.

20 Jan., Fri.

Slide show. 7 pm at Tillamook Bay Community College Auditorium. "Wildflowers of Oregon," by George Lewis.

2 Feb., Thurs.

Meeting. 7 pm at State Office Building, 3600 3rd St., Tillamook.

For information, contact Clarice Maxwell (842-7023).

Portland

10 Jan., Tues.

Meeting. 7 pm at First United Methodist Church, 1838 SW Jefferson St., Portland. Slide show of "Flowers within Two Hours' Drive of Portland," by Carroll Dubuar.

18 Feb., Sat.

Potluck dinner. 1:30 pm at Leach Botanical Garden. Tour of garden about 12 noon, led by Carroll Dubuar. Tour of garden after the meal, led by Charlene Holzwarth.

Siskiyou

12 Jan., Thurs.

Meeting. 7:30 pm at Rm. 171, Science Building, SOSC. John Irwin, well known local wildflower photographer, and Dr. Frank Lang, Biology professor at SOSC, team up for an evening of education and enjoyment. John's slides will provide the basis for Dr. Lang's instruction on plant identification skills and knowledge of the local flora.

Willamette Valley

16 Jan., Mon.

Meeting. 7:30 pm at First United Methodist Church, corner of SE Church and State Sts., Salem (use the Church St. entrance). Illustrated discussion on "Rare and Endangered Plants in the Willamette Valley Chapter's Monitoring Program," by Wilbur Bluhm and Don Eastman.

Wm. Cusick

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

NPSO Annual Meeting

What is the favorite season of NPSO members? Spring, of course! And what better time and place for the state's annual meeting than early May in the Columbia River Gorge. The Mid-Columbia Chapter hopes many NPSO members will want to come to Mosier the first weekend in May.

We are planning several field trip choices for Saturday, May 6. Continuing tradition, the annual banquet will be Saturday evening when the installation of new officers takes place. We are also searching for an interesting program and speaker for the evening. If anyone has suggestions or recommendations, please send such tips as soon as possible to Susan Kofahl, Box 151, Mosier, OR 97040.

For those of you who can arrive Friday evening, there will be an open house at Susan's home. Sunday, May 7, will be the Board of Directors meeting. Also, participants may want to explore the nearby Tom McCall Nature Conservancy Preserve. There's a new hilltop addition trail providing scenic vistas and elevational changes in plant varieties and blooming. More details will be in forthcoming *Bulletins*.



Oregon Redwoods to be Cut

While old growth coast redwoods, *Sequoia sempervirens*, reach their peak along the northern coast of California, Oregon has a few outstanding groves in the Siskiyou National Forest. Most of the remaining trees occur in the Peavine Ridge, Bear Ridge, and Bridge Creek areas of southern Curry County. Many of the redwoods in these stands have diameters of six feet, with the largest along Peavine Ridge measuring 11 feet. The Siskiyou National Forest is formulating a "Redwood Management Plan," to be released in early 1989 as part of the Final Siskiyou Forest Plan.

Unfortunately, the Chetco Ranger District has planned timber sales in redwood groves along Peavine and Bear Ridges in early 1989 and again in 1990. These sales would have the biggest and best redwoods cut before the Redwood Management Plan comes open for public comment and can be finally adopted.

NPSO members are urged to write to the Siskiyou National Forest, asking that the Bear Ridge and Grapevine timber sales not be allowed to proceed as planned. Request that all planned sales of old growth redwoods be delayed until there has been adequate time for public review of the forest plan and a final decision on redwood management is reached. Write to:

Michael Frazier, Chetco District Ranger
Siskiyou National Forest
555 Fifth St., Brookings, OR 97415.

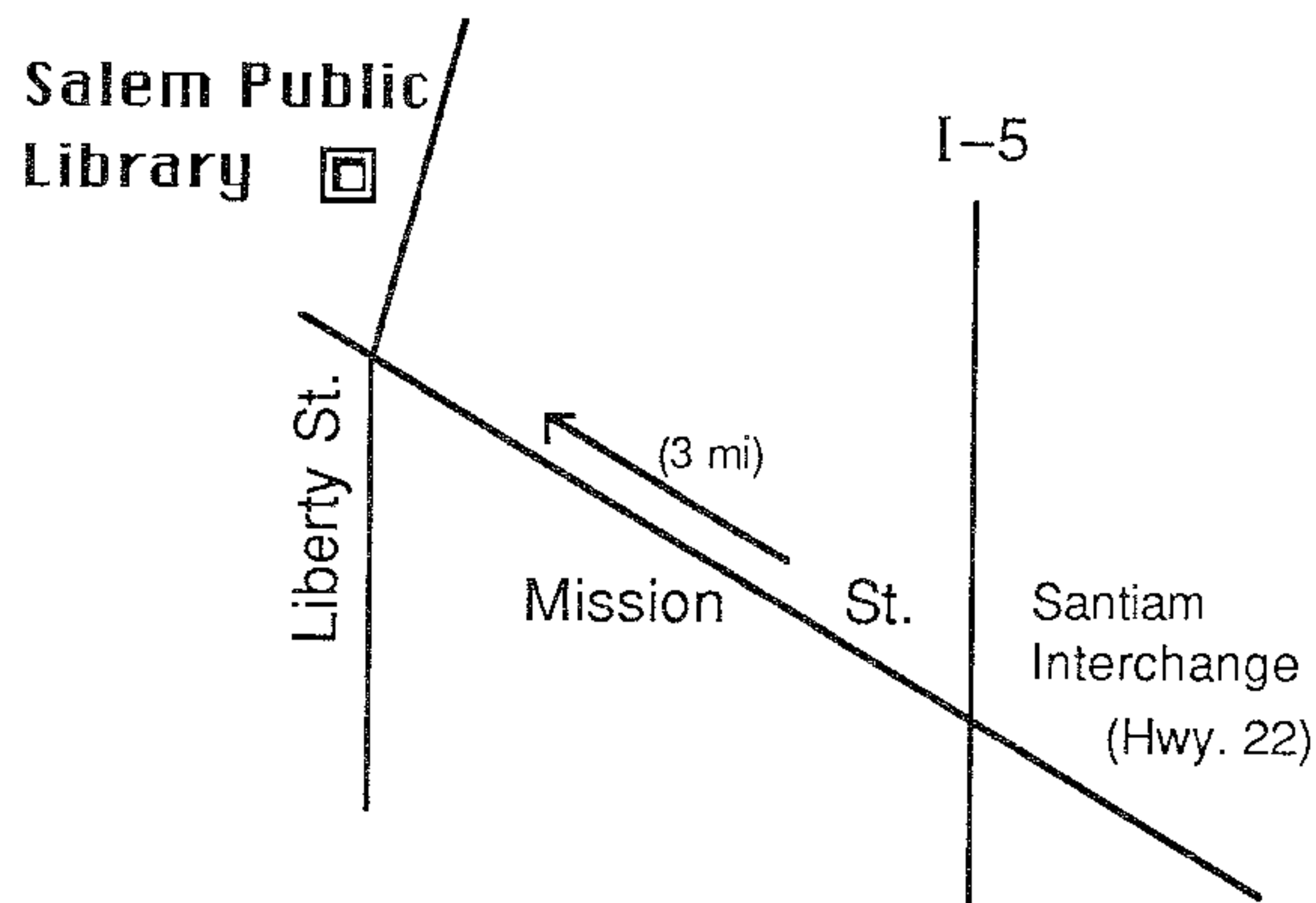
New T-shirt Colors Available

The Emerald Chapter has new colors of T-shirts: teal, red, white, green, and blue. Long and short sleeved are available. Contact Nadine Smith, 1128 Jackson, Eugene, OR 97402.

Board of Directors Meeting

10 am, Saturday, January 28, 1989
Salem Public Library, PGE Room
Please send agenda items to Dan Luoma

Conservation Committee
Landscaping with Native Subcommittee
Meeting to follow



From I-5, take the Santiam-Salem Exit west on Mission St. to Salem. Turn right on Liberty St. (Highway 99 Business). After two blocks, the library is at the top of the hill on your left.

NOMINATING COMMITTEE REPORT

The nominating committee has prepared the following list of candidates for the NPSO Board of Director positions to be filled in 1989.

President

Stu Garrett, High Desert Chapter

Vice President

Elizabeth Handler, Portland Chapter

Secretary

Rhoda Love, Emerald Chapter

Treasurer

Daphne Stone, Emerald Chapter

Directors at Large

Barbara Mumblo, Siskiyou Chapter

Gary Blackburn, Portland Chapter

Marjorie Willis, Willamette Valley Chapter

Paula Brooks, Portland Chapter

Additional nominations for any of the positions listed above will be accepted until January 10, 1988. A complete list of candidates with capsule resumes will be published in the February Bulletin.

The nominating committee extends its appreciation and gratitude to each of the candidates for their willingness to serve. Thank you!

Russ Holmes, Nominating Committee Chair

672-4491 (office), 672-4635 (home)

322 Arcadia Dr., Roseburg, OR 97470

Carolyn Wright

467-2218 (home)

Stephanie Schultz

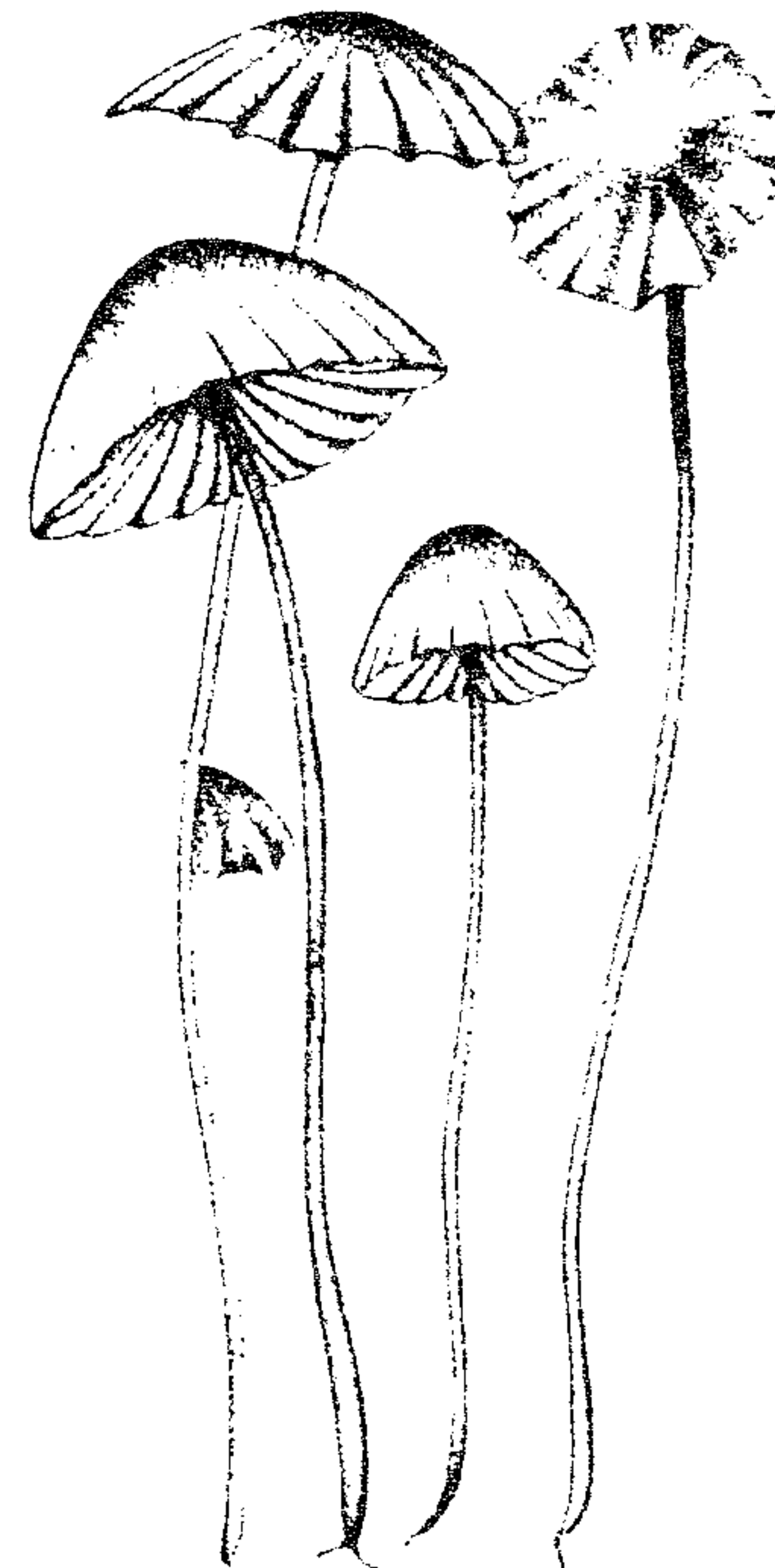
485 1868 (home)

Vegetation Management on Public Lands

Several members have been actively concerned with vegetation management (or mis-management) on publicly owned lands. In some individual cases success has been achieved in educating those responsible for vegetation management. In other cases, we have not been so fortunate.

A group is forming to address this issue in a statewide fashion. Those interested in guiding or working with this group should plan to meet with us after the January NPSO Board meeting. Please join us in the PGE Conference Room in the Salem Library at 1:30 pm.

The discussion will be to identify the goals of the group and its position within NPSO, and to begin planning strategy. We will also need to select leaders and spokespersons for public comments. All those interested in vegetation management, which respects native species, are invited to join us in solving this situation. Please contact Sallie Jacobsen at 842-4350 with suggestions or questions.



State Board Meeting Highlights

The October 22 meeting was at Mosier School.

Cindy Hohenleitner has moved to New Mexico, and resigned as NPSO Secretary. Marjorie Willis will be acting Secretary until May.

In the Conservation Committee report, Ed Alverson noted that NPSO is getting acknowledgements of the comments we made on various National Forest plans. To increase the likelihood of responses from agencies, Russ Jolley suggested that members ask specific questions and clearly request responses.

Ed has received a document on Management of Spruce Budworm. His comments included concern for endangered plants that are pollinated by lepidopterans, whose populations have crashed as a result of spraying.

Introduction of exotic plants at several sites was discussed. Examples are: BLM and State Parks have been planting trees, exotic and native, along the Deschutes River; bald cypress is planted around mountain lakes to prevent erosion; and *Ammophila* is still planted on the coast. Agencies often are uneducated as to the problems caused by exotic plant introductions. There is an opportunity for NPSO to educate State Parks, BLM, and others on this issue.

Rhoda Love suggested that the Committee on Landscaping with Natives ought to meet and act on these matters. This group will also deal with management of highway roadsides.

Pat Rogers-Rochna reported that the Willamette Valley chapter joined Oregon Steelheaders in rerouting the stream at ODF&W's permanent Salmon and Trout Enhancement Program exhibit at the Oregon Fairgrounds. NPSO members landscaped the site with native plants and will continue to participate in the project. A brochure will interpret the botanical aspect of the exhibit. NPSO's information brochure

will also be distributed at the exhibit.

Tom Kaye reported that a new county park has been established in Corvallis. The tract includes forest and grassland habitats.

Jerry Igo reported that the Mid-Columbia chapter did a survey on the introduced skeleton weed, a composite which mechanically interferes with wheat harvest. About 2000 plants were found nearby at Seven Mile Hill. On the Tom McCall Preserve, yellow star thistle has been relocated.

Russ Jolley summarized his proposal to the State Highway Division for a roadside vegetation restoration project one mile west of Mosier on I-84. The goal is to create an oak-pine grassland. Both Portland and Mid-Columbia chapters are involved. Dan Luoma suggested that the proposal should stress the minimal long-term maintenance costs. Peter Zika brought up an additional funding possibility: 0.25% of the landscaping budget of federal aid projects must be used for landscaping with natives. Russ presented a draft position paper, "A Proposal for Natural Roadsides in the Columbia River Gorge National Scenic Area."

Richard Holoch, representing 1000 Friends of Oregon, discussed the need for statewide changes in roadside vegetation management. The timing is right to change attitudes and policies. At a recent meeting with 1000 Friends and NPSO, Don Forbes, the new State Highway Engineer, was receptive to the idea of decreasing highway costs by using natives.

Frank Lang and Stu Garrett are thinking about starting a journal of "Occasional Papers" for NPSO, similar perhaps to California's *Fremontia* or Washington's technical papers.

Barbara Halliday suggested that we start writing Botanical Field Trip Guides. She offered to serve as editor.

When Is A Bog Not A Bog?

When it's a swamp, perhaps? Or a marsh? Many of us are imprecise about these terms. Dictionaries try to persuade us that they are synonymous.

To the rescue comes an article in *National Geographic*, March 1987, "Mysteries of the Bog" by Louise Levathes, putting all these wet places in order, as follows:

"Swamps are dominated by trees,
marshes by grasses, and
bogs by sphagnum mosses and heaths."

A bog's only water source is precipitation. If it is fed by other waters such as springs or streams, it is a fen, such as Multorpor Fen, a preserve of The Nature Conservancy near Government Camp.

Now a swale . . . well, Levathes doesn't mention one. I guess it's part swamp and part marsh, and in the Willamette Valley it will surely have ash trees.

Louise Godfrey, Portland Chapter

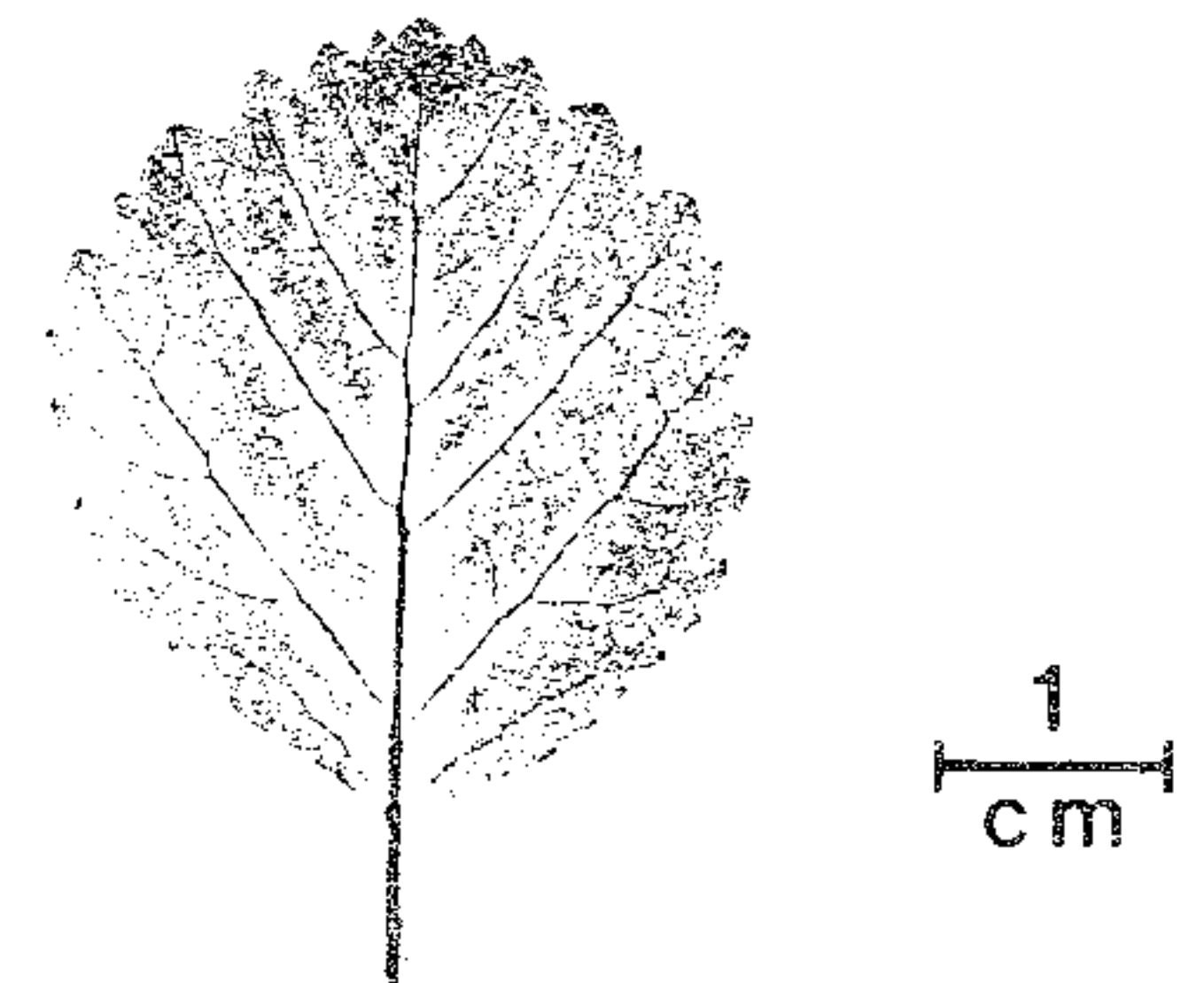
Plant Puzzle

Sponsored by the Emerald Chapter

Can you name this plant? The first person to give the correct scientific name will win a prize. The leaf illustration is from a woody plant growing wild in Oregon.

Send your guess on a postcard to:

Peter Zika
28681 Peoria Rd.
Halsey, OR 97348



December's prize winner was Gail Baker of Duvall, Washington. She correctly identified *Prunus emarginata*, bittercherry.

BOOK REVIEW

Mosses Lichens and Ferns of Northwest North America, by Dale H. Vitt, Janet E. Marsh and Robin Bovey. 296 pp. 1988. Lone Pine Publishing. 414, 10357-109 St., Edmonton, Alta. T5J 1N3, Canada. Can. \$24.95 + 3.00 shipping (paper).

Lovers of mosses, liverworts, and lichens, awake! This book is a sure sign that a gap, long extant in North America, is beginning to be filled. For years, Europeans, Japanese and New Zealanders have enjoyed using bryophyte and lichen field guides lavishly illustrated with elegant color photos and easily comprehended text. Now our time has come.

Mosses Lichens and Ferns of Northwest North America covers all of the Pacific Northwest and the western edge of the Great Plains. It includes 170 mosses, 20 liverworts, 156 lichens and 28 ferns, only about 15% of the the species in the region, but representative of those most likely to be encountered by the casual observer.

There is a brief history of botanical collectors, a review of the major technical guides for the region, and concise descriptions of climate and seven major vegetation zones, complete with color pictures. It also describes how to collect, identify, preserve and photograph specimens. Separate sections for the four plant groups each include a dichotomous key to species, and several illustrated pages describing structure and biology. Descriptions of individual species are accompanied by one or two macro photos, a distribution map, and symbols identifying which vegetation zone the plant occurs in. A glossary and index, complete with nomenclatural synonyms, round out this comprehensive treatment.

The book presupposes a certain amount of knowledge of biology, using terms like meiosis and gametangia without definition. On the other hand, it also uses more familiar and effective words like "fuzz" (for "tomentum") and "fat" (for "turgid"). Nomenclature is current, and includes the many changes in lichen names that have occurred in the last decade. The species are arranged in phylogenetic order, according to views recently espoused by the authors, that differ from more traditional arrangements provided by earlier guides to the region's flora.

Unhappily, liverworts get less coverage than the ferns. Ferns should not have been included at all. In a guide intended to introduce bryophytes and lichens, it's not fair to skimp on liverworts and include ferns that have already been described and illustrated in numerous other popular treatments of the region's flora, from Hitchcock to Kozloff.

Most of the photographs are fantastic and nicely reproduced. There is good coverage of the notoriously difficult crustose lichens, even those occurring on soil. There is also good coverage of those species found in the arid

interior of the region. A few photos were taken too far away from the subject, so that one cannot see distinguishing features. Others should have been accompanied by a simple line drawing of diagnostic features described in the text but not evident in the photo. Sadly, the black-and-white scanning electron micrographs reproduced poorly, perhaps because of the paper used in printing. I have seen these elsewhere on glossy paper, and they are gorgeous. There are a few crude drawings in the lichen section, illustrating features that would have been served better by SEM photos. The only error I found was a picture of what looks like the moss Rhytidiadelphus loreus, masquerading as Dendroalsia abietina in the lower right-hand photo on page 113. Lastly, some plants known to occur in Oregon are not shown on the distribution maps.

Mosses Lichens and Ferns of Northwest North America is a must for those interested in these plants. It is a welcome addition to the library, and a good way for those unfamiliar with the group to begin studying them.

John A. Christy
Botany Section, Milwaukee Public Museum
800 West Wells St., Milwaukee, WI 53233

Mighty Mites to the Rescue

The town of Bandon was burned to the beaches, literally, in 1937 by fire running wild through fields of gorse, *Ulex europaeus*.

Bandon rebuilt (it's now a choice destination on the southern Oregon coast), but so did the golden gorse, a dense, spiny-leaved shrub brought from Ireland by a well-meaning settler. Its natural predators did not accompany it, and it now claims 25,000 acres in Coos and Curry counties.

Efforts to clear by hand and machine or to compress it for food or fuel made little progress. In 1956 a weevil was introduced to eat the seeds, but it devours only 90 percent of them in order to keep its food crop going. Smart weevil.

Now, as reported on October 26, 1988 in Bandon's newspaper, *Western World*, other small warriors are being recruited. A moth that eats the foliage is being tested in Hawaii (50,000 acres to graze on there). In New Zealand, where 400,000 acres are said to be involved, two mites are acclaimed for their willingness, in tests so far, to eat "the whole thing."

Federal, state, and county agencies are involved in the research in Oregon, seeking the biological control that will consume the gorse and only the gorse, then starve to death before it attacks any other plants. That's asking a lot of mites.

--Louise Godfrey
Portland Chapter

Strawberry Futures

Though far from endangered, the beach strawberry, *Fragaria chiloensis*, may become another example of why all species, whether rare or common, should be guarded for their unexpected virtues.

Resistance to aphids and spider mites and root weevils has been found in some of the 1000 clones of the plant, studied during the past 20 years at Washington State University's Southwestern Washington Research Unit in Hazel Dell.

Hybridizing this trait with plants of good flavor and other commercial requirements would be a boon to growers, and it's hoped that test plots will be under way in a few years.

As reported by Bob Sisson the *The Columbian* (Vancouver, October 19, 1988) other factors in which *Fragaria chiloensis* may have useful qualities are its fruiting habits, resistance to cold and drought, and photosynthesis rates. The latter can be measured by a portable machine in the field on individual plants, revealing how efficiently they draw carbon dioxide from the air and convert it to bigger and better strawberries.

--Louise Godfrey
Portland Chapter

Welcome New Members

Corvallis Chapter
Signe Landon
Grace Taylor

Emerald Chapter
Annette Estes

High Desert
Louise Grayson-Ferree
D. Malarkey
Marcel Sandoz

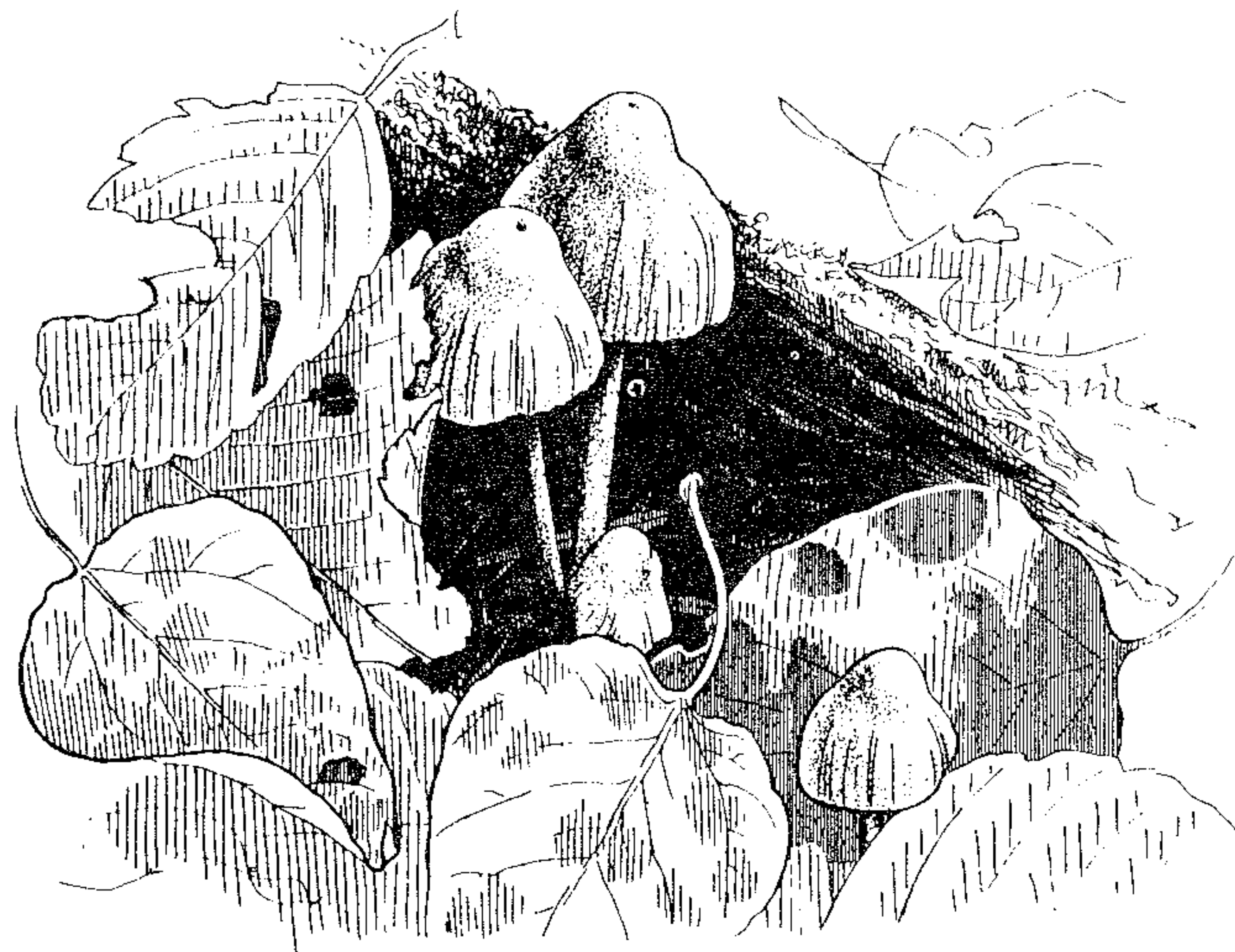
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John Diekelmann
Jean Gilbert
Roy & M. Lorraine Hagen
Sandy Polishuk
Juanita J. Whittlesey

Portland Chapter
Lynne Bell
Shirley R. Brown
Michele Champaign
June A. Cooper
Pete & Sue Heiden
Norma E. Kerns
Steven Krumm
Leslie Labbe
Sylvi N. Larsen
Christine A. Leblanc
Clarence & Shirley Smith

Siskiyou Chapter
R. Mitchel Beauchamp
Joe Thomas Miller

Gift

In memory of Marion King, from Lydia Koennecke.



Drawing by Ramona P. Hammerly, from Northwest Trees, by Stephen F. Arno & Ramona P. Hammerly, The Mountaineers Books, Seattle.

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 T-SHIRTS..... Nadine Smith..... 1128 Jackson St., Eugene 97402; 344-6478

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 WM. CUSICK (LaGrande area)..... Rachel Sines..... 504 C Ave., LaGrande 97850; 963-0674

BULLETIN EDITOR..... Jan Dobak..... 2584 NW Savier St., Portland 97210; 248-9242

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: The *Bulletin* is not typeset; therefore 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. 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.

Illustrations: Ink drawings or woodcuts are preferred to pictures requiring halftone reproduction. We welcome small illustrations or "doodles" 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 underlined or italicized.

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

Chapter (if known) _____

Name _____

Address _____

City _____ State _____ Zip _____

Phone (Home) _____ (Work) _____

Is this a change of address?
 If so, please write your *Old Address* here:

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.

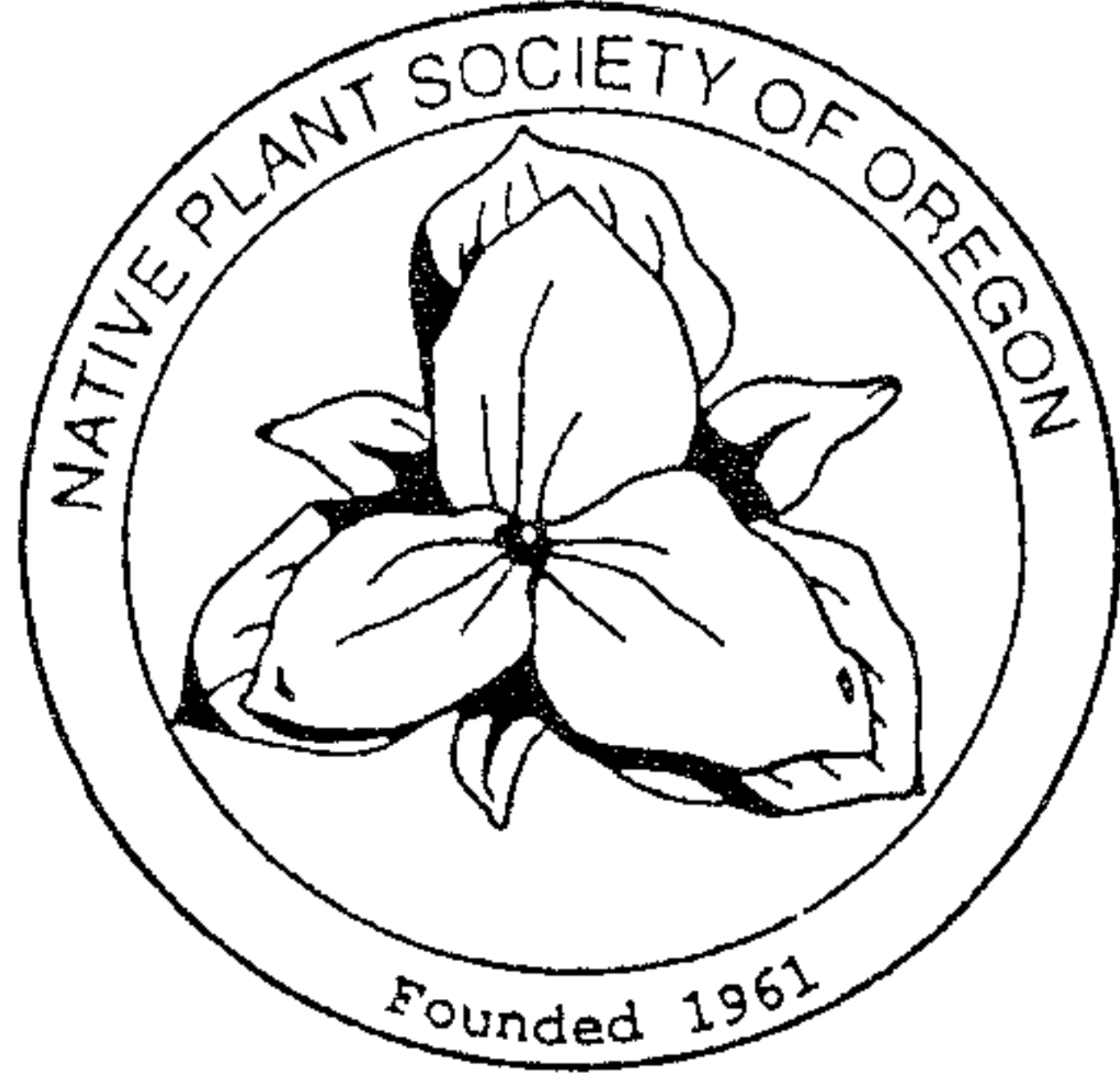
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* **CONTRIBUTIONS:** Jean Davis Memorial Award Fund..... \$ _____
 Rare and Endangered Plant Fund..... \$ _____

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

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