

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 20 No. 2

February 1987

ISSN 0884-5999

1987 The Year of the Oregon Endangered Species Act

CHAPTER NEWS

Blue Mountain

16 Feb., Mon.

Meeting, 7:30 pm. in room 105, Morrow Hall, Blue Mountain Community College. Bring slides of plants not identified. We will also plan trips for 1987.

Corvallis

9 Feb., Mon.

Meeting, 7:30 pm. in room 205, Withycombe Hall, OSU. Ed Alverson of the Botany Dept. will give a slide show and talk on the vegetation of Thurston County, Washington, with comparisons to local flora of the Willamette Valley.

Emerald

9 Feb., Mon.

Meeting, 8:00 pm. Amazon Community Center. The Western Conifers Research Cooperative: A program overview and description of research in the Pacific Northwest. Richard Olson, Program Director, will describe the current efforts being made by the Environmental Protection Agency (EPA) to determine the presence of acid rain in the west and its effects.

High Desert

For information, contact Stuart Garrett (382-2681).

Mid Columbia

4 Feb., Wed.

Meeting, 7:30 pm. at Pietro's Pizza Place, 3320 W. 6th Street, The Dalles. Mary Jean Sargent will present a slide program of "Plants and Places in Australia and New Zealand". Come earlier and join us for pizza.

North Coast

For information, contact Roy Peters (842-9284).

Portland

7 Feb., Sat.

Workshop, 10:00 am., First United Methodist Church, 1838 SW Jefferson, Portland. This workshop will be on "Habitats" and preliminary strategy session for the Plant Show in June titled "Flowers in the Forest".

10 Feb., Tues.

Meeting, 7:00 pm. First United Methodist Church. Wendell Wood of the Oregon Natural Resources Council will present a program featuring the alpine flora and landscapes of the Steens Mountain.

21 Feb., Sat.

Workshop, 10:00 am. First United Methodist Church. FERNS; bring hand lens. Leader will be Florence Ebeling.

28 Feb., Sat.

Workshop, 10:00 am. MOSES; bring hand lens and moss books if you have them. This workshop is to be followed with a field trip in March. Leader is John Marsh.

7 March, Sat. First field trip!! East end of Columbia Gorge. Meet at 8:00 am at the K-Mart, NE 122nd and Sandy Blvd., south end of the parking lot or meet the leader in Hood River at 9:30 am at Hood River Inn parking lot. Leader is Keith Chamberlain(478-3314).

Siskiyou

12 Feb., Thurs. Meeting, 7:30 pm. in room 171 of the Science Building at SOSOC. Joan Seevers and Rick Prusz will give a slide presentation on Spring Bloom on California's Deserts. For more information, call Jan Larson at 482-4513.

Willamette Valley

16 Feb., Mon. Meeting, 7:30 pm. First United Methodist Church, corner of SE Church and State Sts., Salem. (Use Church St. entrance.) Margorie Willis will present a lecture and slide program on the Natural History of Costa Rica.

Wm. Cusick

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

RENEW! RENEW! RENEW! PLEASE

If you haven't renewed your NPSO membership for 1987, this will be your last Bulletin. Please send in your dues if you have not done so already.

CORRECTION

In last month's Bulletin, the drawing of Calypso was credited to Julie Kierstead. Esther McEvoy was the artist for this drawing; Julie drew the picture of Cypripedium montanum on the opposite page.

JOB ANNOUNCEMENT

TEMPORARY BOTANIST --- BUREAU OF LAND MANAGEMENT

The Roseburg District is seeking a botanist to conduct a comprehensive vegetation inventory of a designated Research Natural Area. Responsibilities will include delineating plant communities, compiling plant species lists, preparing specimens for the District herbarium, and taking photographs to be used in publications and public presentations. Additional responsibilities in both the RNA and sensitive plant programs will be assigned as time permits. The appointment will be for three months beginning March 2, 1987. For further information contact:

Russ Holmes
Bureau of Land Management
777 N.W. Garden Valley Blvd.
Roseburg, OR 97470
phone 503 672-4491

LONG DRAW RESEARCH NATURAL AREA

From a distance Long Draw basin is treeless, rolling, and spacious under a vast desert sky. In June it is a gray and brown landscape that looks parched, like the dusty rutted roads that lead to this obscure arroyo in southeast Oregon. Long Draw RNA doesn't look like an interesting botanical site, at first glance.

But we found nearly 100 plant species in the RNA, and only four of these were not native. Most of the 440 acres were essentially weed-free. Even Bromus tectorum (cheatgrass), the scourge of arid ecosystems, was common only along the access road and the eroding banks of Long Draw wash.

Artemisia tridentata (big sage) dominated the native species over the rest of the RNA. Crepis acuminata (long-leaved hawkbeard) and Eriogonum ovalifolium (oval-leaved eriogonum) blazed in yellow masses in the late afternoon sunlight. Chorizanthe watsonii (Watson's spineflower) was scattered on open slopes, resembling jumbles of tiny chartreuse toothpicks. The most bizarre plant was Glyptopleura marginata (carved-seed), with its flowers and sculpted fruits hidden in rosettes. Each leaf margin was white with an intricate frost-like fringe.

NPSO funded our exploration of Long Draw RNA, and we are happy to report to the grant-givers that we located five plants that are locally rare in Oregon: Astragalus alvordensis (Alvord milkvetch), A. tetrapterus (4-winged milkvetch), Calochortis bruneaunis (sego lily), Cryptantha propria (Idaho cryptantha) and Silene scaposa spp. lobata (scapose silene).

Peter Zika and Lois Kemp
Portland Chapter

(For copies of this report, write to Barbara Fox at 11455 SE 35th, Milwaukie, OR 97222.)

LEGISLATIVE NOTES

STATE NEWS: As I write this article the legislative council is finishing the final draft of our bill. Before you receive this bulletin, our bill should have a number and be on its way!

In our bill, the Division of State Lands (DSL) will be given the authority for plants and the Department of Fish and Wildlife (ODFW) will have authority over animals including terrestrial invertebrates. The following is a list of the main statutory authorities in our bill that will be given to the agencies:

- 1) Authority to keep data on all species in Oregon
- 2) Authority to list species as Endangered or Threatened based on biological data
- 3) Authority to require other state agencies to comply
- 4) Authority to restrict taking of listed species
- 5) Authority to acquire critical habitat and manage it for conservation of species
- 6) Authority to develop and implement recovery plans.
- 7) Authority to penalize violations
- 8) Authority to issue permits for authorized taking
- 9) Authority to exempt specified projects from compliance

A brochure, slide show, and education packet will be available in February. I will be sending information to the chapter presidents as soon as it is available. If you are interested in helping in any capacity, please drop me a note.

We need volunteers to write letters, attend and testify at hearings, help with mailings, telephone legislators, and many other actions. It is very important for each of you out there to contact your representatives once you have the information on the bill. Phone calls will be most important as the bill gets into the session. We will be setting up phone trees to alert members of critical periods in the progress of our bill.

On another note, comments are due by February 15, 1987 on the DEIS for the Siuslaw National Forest. Two areas that should be mentioned in your letters are Reneke Creek and Sand Lake. Neither of these areas are included in the preferred alternative, and they should be.

Reneke Creek has two parallel water sheds dominated by a natural stand of red alder. This potential RNA is being jeopardized by timber harvest in part of the area. This harvest would remove the alder and alter the aquatic and terrestrial systems, rendering the area useless as baselines for scientific study.

Sand Lake has active parabola sand dunes that extend inland from the ocean with an adjacent old growth spruce forest. You should comment that this RNA should be

included in the preferred alternative. It should be designated to protect the maximum extent of sanddunes and oldgrowth.

On a final note, one should state that we would like to see the Siuslaw continue to research their lands for potential RNA's.

Remember this is the year of our Endangered Species Bill. Try to help in any capacity you can. Donations will always be welcome for the Legislative Fund.

Thank you. Esther Gruber McEvoy
State Legislative Chair

Donations to the Legislative Fund should be sent to Esther McEvoy, 3290 SW Willamette, Corvallis, OR 97333. Checks should be made out to NPSO.

FOREST & COASTAL WORKERS NEEDED

NPSO badly needs two more people for its state conservation committee: a Forest Issues Coordinator and a Coastal Issues Coordinator. NPSO's board of directors authorized this change at its Fall 1986 meeting.

The State Conservation Committee now consists of a State Conservation Chairman and one or more members from each chapter. Chapter representatives are chairmen of their own chapters' conservation committees. In cases where a chapter has no designated Conservation Chairman the chapter president serves.

The benefits of taking on one of these volunteer positions include: better understanding of public institutions, the chance to affect important land use decisions, opportunities to meet some wonderful people, access to information otherwise not routinely available to the public, and the great feeling of doing something concretely positive for Oregon's native flora.

No formal training is necessary, just an interest in public lands and public policy and a willingness to learn the acronyms with which bureaucrats communicate. The time required varies from 4-30 hours per month depending on the issues that come up and one's interest in those particular issues. It's not possible to stay on top of everything, so conservation committee members are expected to set their own priorities and their own hours.

These two new positions are statewide in scope, though obviously the Coastal Issues Coordinator will concentrate on a limited area of the state. Local chapter conservation committees are able to take the lead on local issues (for example, review of a local forest plan) and there are many other resources available. The present State Conservation Chairman will continue to concentrate on BLM issues statewide.

To volunteer for either position or to find out more contact NPSO President Rhoda Love, 345-6241, or State Conservation Chairman Julie Kierstead, 760-6872.

Jean Davis Award: Deadline 4/1

PLEASE COMMENT

NATIVE PLANT SOCIETY OF OREGON

DRAFT GUIDELINES FOR THE SALE OF MEMBERSHIP LISTS AND ADVERTISEMENTS

NPSO will award a scholarship to a worthy student in an Oregon college, with his or her major study in plant systematics or plant ecology. The scholarship is in the amount of \$1,000, and is to be used toward the student's tuition within the following academic year. Deadline for applications is April 1, 1987; the award will be made by May 1, 1987.

Donations to the scholarship fund are tax deductible and are welcome at any time. All interest earned from the donations is apportioned out to as many scholarships as possible in the spring of each year, at \$1,000 each.

All communication regarding this fund should be addressed to Mary Falconer, Committee chairman, 1920 Engel Ave. NW, Salem, OR 97304.

* * Rules for Scholarship Awards * *

- 1) Scholarships are available to students in Oregon colleges, planning their major study in Plant systematics or ecology.
- 2) Scholarships are awarded in the amount of \$1,000 to worthy students who will complete at least 2 years of satisfactory college work by July 1 of the year of receipt of application, & are full time students. Graduate students may be eligible if they meet all qualifications except that of "full time student".
- 3) Awards are made in the following manner:
 - a) a certificate presented to the recipient
 - b) a check in the amount of the award, submitted to the school of choice, as set forth in rule 1, to be used toward tuition within the following academic year
- 4) If an award recipient fails to enroll, changes his or her major, or leaves the school before completing the period for which the award was granted, the full amount or unused part of the money shall be returned to the Jean Davis Memorial Scholarship Fund.
- 5) Applicants are required to submit:
 - a) in their own handwriting, a statement of academic & career intent
 - b) two letters of reference from persons able to judge to student's ability to successfully complete study in the area of plant systematics or plant ecology
- 6) All applications together with items listed in rule 5 must be received by the Chairman of the Jean Davis Memorial Fund Committee no later than April 1. The award will be made by May 1.
- 7) Scholarships are not granted to members or relatives of any person currently serving on the Scholarship Committee.

1. Lists and advertising space in the Bulletin will be sold only to those organizations that will provide a service to the membership that is in keeping with the aims and objectives of the Native Plant Society of Oregon. These include commercial enterprises such as bookstores, plant nurseries, museum stores, and other environmental organizations.
2. The lists and advertising may be used for the sales of goods and services, but not for the solicitation of funds or political support for causes or candidates.
3. Approval of the sale of membership lists to qualified groups will be given at the quarterly board meeting by a vote of the board upon the recommendation of the president and editor.
4. The publication of advertising will be at the discretion of the editor based on the criteria listed above and the space available. In the case of questionable advertising, the editor may seek the advice of the president and/or the board.
5. Sets of mailing labels will be sold at \$0.10 per name plus the cost of the labels.
6. Purchasers will be asked to sign an agreement that they will not make extra copies of our membership list for their own use.
7. Purchasers will be responsible for placing their own labels on their own mailing.
8. Camera ready advertising copy will be printed in the Bulletin at the following rates: Full page (7 1/2 x 9 1/2 in.), \$50.00; half page (7 1/2 x 4 3/4 in) \$25.00; quarter page, (3 1/2 x 4 3/4 in) \$15.00.
9. A classified section should be established in the Bulletin and advertising sold at the rate of \$0.25 per word with a maximum of 24 words.
10. The Native Plant Society can not include insert advertising material with our materials with out endangering our permit status. We may, however, run advertisements as a part of the Bulletin.



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

Here it is! A more close-up view of our NPSO candidates for Office and the Board of Directors. Remember the official election ballot will be included in the March Bulletin!

Announcing
Great Basin Naturalist Memoir 9

A UTAH FLORA

President:

Dan Luoma - Currently vice-president of the Corvallis Chapter, having served as president of that chapter two years. PhD student at Oregon State University, studying forest plant ecology.

Vice-President:

Marjorie Willis - Currently is the Natural Resource Planner for Oregon State Parks. Has taught biology, led natural history tours to Central America, served on the Berry Botanic Garden board, and has done botanical field work for the BLM.

Treasurer:

Marjorie Ettinger - Has served as NPSO Treasurer for the past two years, and graciously agrees to serve a third term. Has computerized much of NPSO bookkeeping business by this point. Busily involved with Central Oregon Community College's Herbarium and plant collection in Central Oregon.

Secretary:

Charlene Holzwarth - Long-standing member of the Portland Chapter where she has served as treasurer and field trip chairman. has also held State Treasurer position and was instrumental in NPSO's first notecards. Recently returned from 2 years in the Peace Corps and has resumed teaching in the Portland public school system.

Board of Directors, Members-at-large:

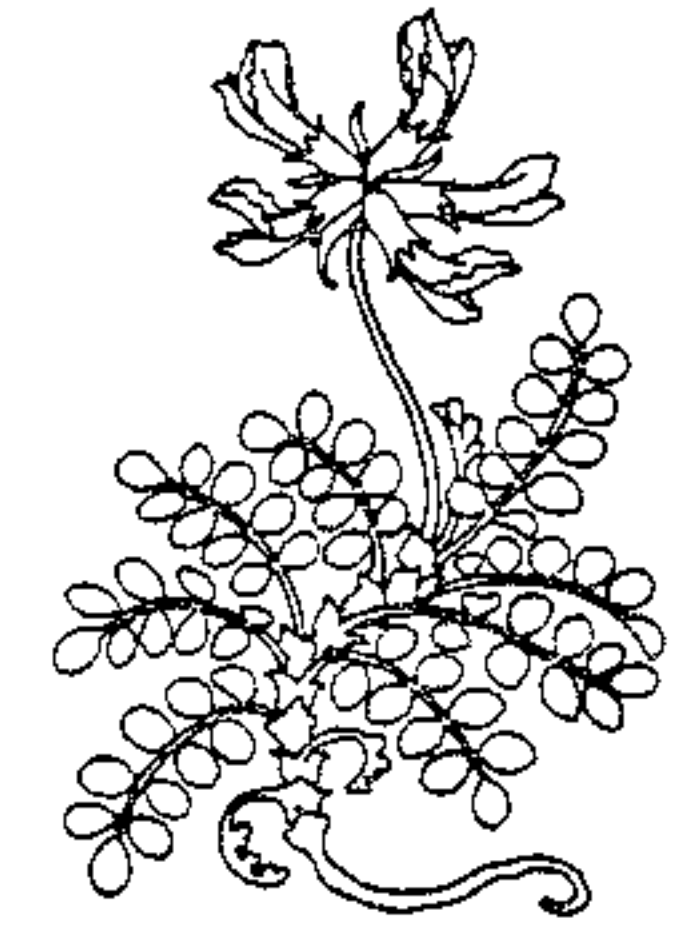
David Gross- Member of Mid-Columbia Chapter, Forester, Mt. Hood National Forest. Interest in botany in general and either end of the spectrum in particular: weeds and rare plants. Co-recipient of NPSO grant last year for plant surveys in Southeastern Oregon RNAs.

Russ Holmes- Emerald Chapter member. Botanist with the Bureau of Land Management in Roseburg. Responsible for coordinating the District's sensitive plant Research Natural Area programs. NPSO member since 1981.

Mary Mason- Retired librarian. Has served as vice-president of the Portland Chapter for the past two years. Audubon Society member. Board member of Friends of Tryon Creek State Park and guide for park school tours. Member of Oregon Trails Club and Chair of Conservation Committee.

Esther McEvoy- Founded the Corvallis Chapter and has served as its president. Has worked as a botanist for the Burns District in 1979 & 1980. In 1981 worked for the U.S. Forest Service on old growth Douglas Fir plant communities in the Mapleton District. Currently the NPSO Legislative chair, hopeful our bill for rare plant protection will succeed in the 87 Legislative Session.

Richard Smith- Has been a professional land use planner for nearly 20 years. One of the founding members of and the current secretary of the North Coast Chapter. Holds long term interest in botany and plant geography.



A UTAH FLORA is a comprehensive treatment of the vascular flora that will be particularly useful to students of plant identification. Keys are provided for family, genera, species, and infraspecific taxa. Taxa are described, ecological data is given, and geographic information is provided, including county distribution in Utah for each taxon.

Also included is general geographic information for taxa extending beyond Utah. Where available, the chromosome number for each taxon is listed. Indigenous taxa include some 2,572 species and 355 infraspecific entities, or a total of 2,927. Introduced species number some 580, and the total taxa treated in the flora is 3,507.

Authors: S.L. Welsh, N.D. Atwood, L.C. Higgins, S. Goodrich.
Prepublication offer: See order form below.

Brigham Young University
Great Basin Naturalist
290 M. L. Bean Life Science Museum
Provo, Utah 84602

Please send upon publication _____ copies
of Great Basin Naturalist Memoir 9,

A UTAH FLORA

@ \$32 prepublication price \$ _____
(anticipated publication date December 1986)

COLUMBIA RIVER GORGE NATIONAL SCENIC AREA OFFICE OPENS IN HOOD RIVER, OREGON

The USDA-Forest Service will open temporary offices for the Columbia River Gorge National Scenic Area in Hood River on January 18. The new office is located in the Waucoma Center, Suite 301, 902 Wasco Avenue, Hood River, Oregon 97031. The Headquarters will be located in the Waucoma Center from four to six months, until a more permanent location is found. The office will be open from 7:30 am to 4:30 pm, Monday through Friday. The phone number is (503) 386-2333.

Dec. 23, 1986
 To: President Rhoda Love
 From: Budget Committee, Dan Luoma (Ch.), Rhoda Love, Gail Baker

PROPOSED 1987 NPSO BUDGET
 (January 1 - December 31)

Estimated Income:

Balance brought forward	\$4,850.
Membership dues	5,600.
Posters	650.
Interest	300.
Notecards	200.
TOTAL INCOME	\$11,600.

Anticipated Expenses:

Bulletin	\$3,000.
Dues refunds @ 35%	1,960.
Conservation Committee	700.
Legislative Committee	600.
Grants	600.
Board and other Committees (incl. mileage)	600.
R/E Committee	400.
Membership Chair	275.
ONRC (for R/E educational packet)	250.
President's expenses	240.
Secretary's expenses	225.
ONRC annual contribution	100.
Annual Meeting - Speaker	50.
Nominating Committee	50.
Treasurer's expenses	45.
Fees	45.
P. O. Box	22.
Balance Brought Forward (savings)	2,438.
TOTAL EXPENSES	\$11,600.

Conservation and Legislative budgets include mileage (cumulative over first 200 mi. @ \$0.15/mile.)

State board members attending state board meetings are reimbursed for mileage over 200 miles per meeting (non-cumulative) @ \$0.15/mile.

NOTE: Without balance brought forward (savings), INCOME is \$6,750. and EXPENSES are \$9,162. Balance brought forward has fallen from \$5,300 in 1985 to \$2,400 for 1987. To restore savings to \$3,000 in 1988 about \$3,000 will need to be cut from current spending levels.

Editor, Native Plant Society
 and Fellow Inhabitants of This Ravished Globe

Dear Friend,

When I see articles about saving Wilderness Areas for the spotted owl (not to mention all the other reasons) I am reminded of the story of "The Five Blind Men and the Elephant." Each man touched a part of the elephant and that was what the

and the Elephant". Each man touched a part and that was what the elephant looked like to him.

I am an old man, rapidly reaching the hundredth year mark. I spent my younger years in the foothills of the Cascades, going to a one room school of sometimes only seven students. Part of the time I was the only boy in school. At recess and noons, I roamed the virgin forest surrounding the school, untouched by man. I was given a five minute bell to return to class when my free time was over. Very few people have ever seen an Old Growth Forest, such as existed in that area. There were *Calypso bulbosa* by the thousands as well as other members of the Orchid family that you never see now. The flying squirrels sailed from tree to tree. The gray jays sat on your feet, begging for a hand-out. The bluebirds were quite prevalent. After dark, the glow worms lined the trails.

The only major vegetation under those Old Growth trees was a moss carpet, broken only by a few sword ferns now and then. Now it is all gone, never to return for thousands of years or the time it took in the first place. Clear cutting or replanting lets the light enter the stands of timber left, which enables the brush to grow under what is left. Most people haven't lived long enough to see the before and after. The cost in soil, climate and water is not worth raiding any more of our Old Growth Forests. The houses we build from lumber, in fifty or so years are bull-dozed to the ground and burned so we lose what has taken thousands of years to create - not just one or two flowers, a spotted owl or any animal but the safe habitat for everything including mankind. The floods, droughts and climatic changes should make people think before it is too late!

I was asked to escort a young lady from the University of Chicago on a trip to the Valley of the Giants to learn the value of an Old Growth Forest as a habitat for moss, which in turn would conserve our water supply. It was not a true picture of an Old Growth Forest but it was a good example of a small area of stands of Old Growth letting in enough light on all four sides to let brush cover the ground. There was no undercover carpet of moss, just a cover of fallen leaves and weeds. The rape of our wilderness areas is not worth what it costs to repair the effects of droughts, floods and loss of habitat for all forms of life. Let's open our eyes and see the whole elephant.

Sincerely,
 Jesse T. Martin
 Willamette Valley Chapter

DESERTS IN SPRING

March 22 - May 30, 1987

HIKE! CAMP! STUDY! in Death Valley and the Mohave and Sonoran Deserts while flowers bloom and birds and bees do their spring thing.

Be a part of the exciting Spring program of study which tours America's Southwestern deserts for 5-1/2 weeks and Oregon's Great Basin desert for 4-1/2 weeks.

Earn 12 semester (18 quarter) hours of either lower or upper division, transferable college credit through Malheur Field Station and Pacific University.

ECOLOGY OF NORTH AMERICAN DESERTS
 (4 semester credits)

Ecological field studies of plants, animals and ecosystems in deserts and semiarid lands from southeastern Oregon to Tucson, Arizona. Topics include ecology, geography, geology, climate, history and cultures of past and present times, natural resources and environmental problems. Individual and group projects, lectures and lab work.

VASCULAR PLANTS OF NORTH AMERICAN DESERTS
 (4 semester credits)

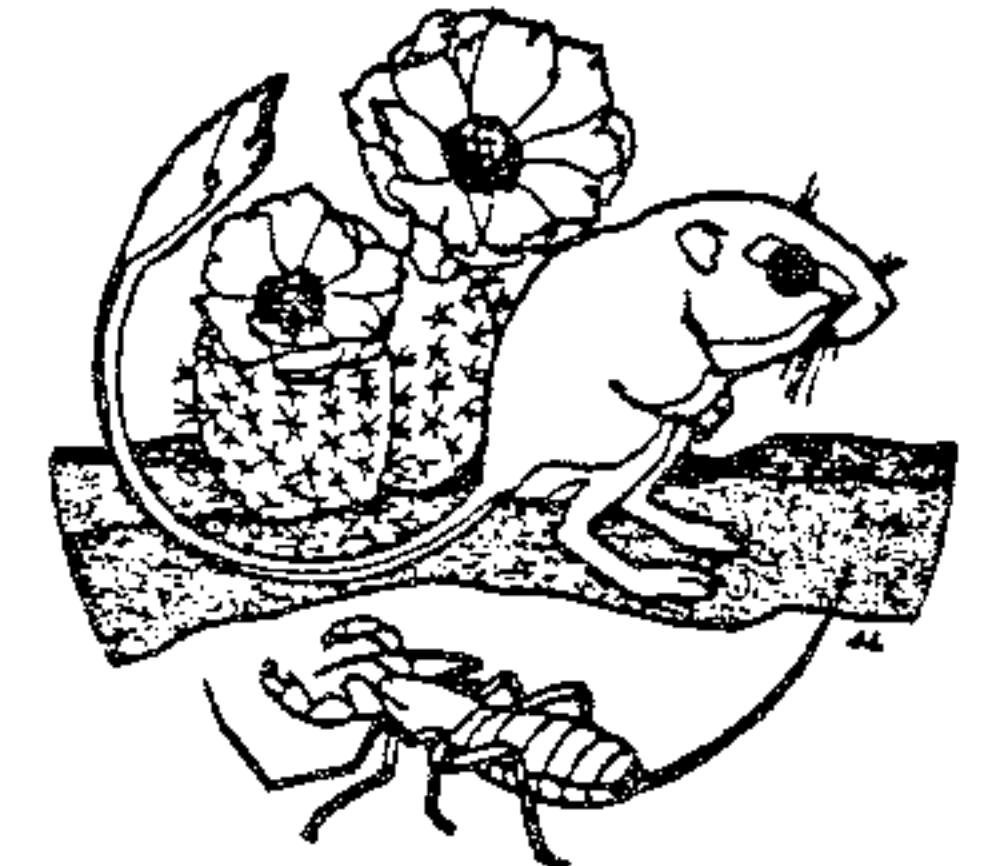
Systematic studies of vascular plants with special emphasis on field identification, natural history and human uses of native plants; familiarization with taxonomic keys; working knowledge of families and orders of desert plants; evolutionary history and relationships of floras.

VERTEBRATES OF NORTH AMERICAN DESERTS
 (3 semester credits)

Natural history, systematics and behavior of vertebrates with special emphasis on field identification and techniques used in field studies including mist netting and banding of birds, marking of small mammals and lizards, aging and sexing.

INVERTEBRATES OF NORTH AMERICAN DESERTS
 (3/semester credits)

Natural history, systematics and behavior with special emphasis on field identification and techniques used in field studies.



INSTRUCTORS: Linda Ann Vorobik and Staff

CLASS LIMIT: 24 students. Enrollment closes March 1st.

COST: \$1,950 includes tuition, room, board, travel expenses in the field, and class supplies. A \$200 deposit must accompany the application. Deposit is non-refundable after March 1st.

APPLICATION: I wish to attend "Deserts in Spring" and am enclosing a \$200 deposit with a check payable to: Malheur Field Station, P.O. Box 260-E, Princeton, OR 97721. Phone: (503) 493-2629.

NAME _____ COLLEGE _____

STREET ADDRESS _____

CITY/STATE/ZIP _____

PHONE _____ AGE _____

Pacific University obeys the letter and the spirit of all federal equal opportunity guidelines.



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

BOOK REVIEW

Lenz, L. W. 1986. Marcus E. Jones: Western Geologist, Mining Engineer & Botanist. Rancho Santa Anna Botanic Garden. Claremont CA. \$28.00.

M. E. Jones has fascinated me since my graduate student days at the University of Washington, when C. L. Hitchcock would read excerpts from Jones' writings to our advanced systematic botany class. I was both horrified and amused by the vitriolic comments that Jones published about his botanical colleagues in his journal, *Contributions to Western Botany*. Readers of the *Bulletin* will remember Dr. Kenton Chambers' article of several years ago that contained Jones' infamous comment on the death of his archenemy E. L. Greene. "There have been some notable deaths in the botanical world since my last contributions. Greene, the pest of systematic botany, has gone and relieved us of his botanical drivel..." On reading Lee Lenz's fine book I discovered that this was not an obituary written shortly after Greene's death, as I had assumed, but a comment by Jones on their long-standing feud over things botanical written fourteen years later. Jones had a long and unforgiving memory.

Lenz traces Jones' family history back to Thomas Jones, born in 1598, and who was a passenger on the *Mayflower* and describes the life of the colorful and controversial Marcus E. Jones. We learn of his early years in Iowa, and his education at Iowa College (later Grinnell College) where he eventually received an A.M. degree. He had an early love for plants that was fostered by his parents. His interest in botany flourished at college and continued throughout his life.

He is best known as a tireless collector of western plants, mostly from the intermountain region and Mexico, who took careful ecological observations of the plants he collected. He considered himself to be one of the fathers of ecological botany and took great pleasure in pointing out the lack of this knowledge in his contemporaries. He proposed 737 names in the course of his botanical career, of which these, 202 still stand.

At Iowa College he met his second love, Anna Richardson, whom he married in February 1880 and moved to Salt Lake City where they spent the next thirty-six years and raised three children. Anna died in 1916 after separating from Marcus in about 1910. Marriage to Marcus must have been difficult. He had a "well developed sense of self-esteem and a desire to dominate" from an early age, and a clear picture of how others, especially women, should behave. Anna frequently had responsibility for earning the income to keep the family together by teaching or running a boarding house, while Marcus botanized, or was involved in unsuccessful

ful mining enterprises of one kind or another.

In addition to his botany, Jones was a devout Christian, who refused to work on Sunday. He preached regularly at small towns in Utah as a lay preacher and had little good to say about Mormonism. In spite of his strong religious views, Jones early accepted the tenets of evolution. Perhaps because of this he was a taxonomic "lumper" and did not see the hand of god in every minute variation.

Jones was also an early environmentalist. He spent many hours testifying in court on behalf of farmers and ranchers who brought suits against the mining smelters for damages resulting from smoke and heavy metal pollution. Jones' wit and sharp tongue made for an enlivened court appearance.

Jones eventually moved to Pomona, California, when his herbarium was purchased for Claremont College by Philip Munz. Jones spent the rest of his very active life in southern California. He was on his way home from a collecting trip when he was killed in an automobile accident at the age of eighty-two.

On a recent visit to the California Academy of Science while reading the correspondence of Alice Eastwood I ran across what was perhaps the most poignant statement ever written about Marcus E. Jones. Marcus' daughter, Mabel Jones Broadbent, wrote Miss Eastwood to tell her about the disposal of M. E. J.'s effects. In this letter she wrote:

He surely had a wonderful mind, and his field work was unique and valuable, but as a man he was not well integrated, perhaps, and like many intellectual geniuses, his emotions were a bit unbalanced, I fear, sadly affecting in judgments in other matters not scientific.

I think I appreciate father's greatness and short comings as clearly as anyone could.

Alice Eastwood, the illustrious, long-time curator of the herbarium at the California Academy of Sciences, was one of the botanists whom Marcus Jones held in high regard.

Lee Lenz has written an interesting, carefully documented biography that has greatly modified my view of Marcus E. Jones, one the West's true botanical characters. Lenz wisely settled a fair and balanced account of the life of Jones, leaving the many Jones stories in "the realm of oral history for the enjoyment of future generations of botanists". Read the book; I think you will enjoy it.

Old Growth Bibliography

The issue of old growth forests and the Spotted Owl are becoming increasingly important. What follows is a selected bibliography of major research documents regarding these concerns. A more detailed bibliography is available from the National Wildlife Federation (519 SW 3rd, Suite 708, Portland, OR 97204). Copies of any documents are available from NWF for reproduction and mailing cost.

Anonymous, *The Northern Spotted Owl: A Status Review*. US Fish and Wildlife Service, unpublished, 1981.

Barrowclough, G., Coats, S., *The Demography and Population Genetics of Owls, with Special Reference to the Conservation of the Spotted Owl (*Strix occidentalis*)*. Unpublished, 1984.

Forsman, E., Meslow, E., *Distribution and Biology of the Spotted Owl in Oregon*. Journal of Wildlife Management Monograph 87, 1984.

Forsman, E., *Habitat Utilization by Spotted Owls on the Eugene District of the Bureau of Land Management*. Bureau of Land Management, unpublished, 1980.

Forsman, E., Meslow, E., *Old-Growth Forest Retention for Spotted Owls - How Much Do they Need?* Unpublished, 1985.

Forsman, E., Meslow, E., *Spotted Owl Abundance in Young Versus Old-Growth Forests, Oregon*, in Wildlife Society Bulletin 5:2, 1977.

Franklin, J.F., K. Cromack, Jr., W. Denison, A. McKee, C. Maser, J. Sedell, F. Swanson, and G. Juday, *Ecological Characteristics of Old-Growth Douglas-Fir Forests*. USDA For. Serv., Gen. Tech. Rep. PNW-118, 1981.

Gutierrez, R., *A Review of the Biology of the Northern Spotted Owl*. Unpublished, 1985.

Gutierrez, R., Ward, J., *Dispersal Ecology of Juvenile Northern Spotted Owls (*Strix occidentalis caurina*) in Northwestern California*. Unpublished, 1985.

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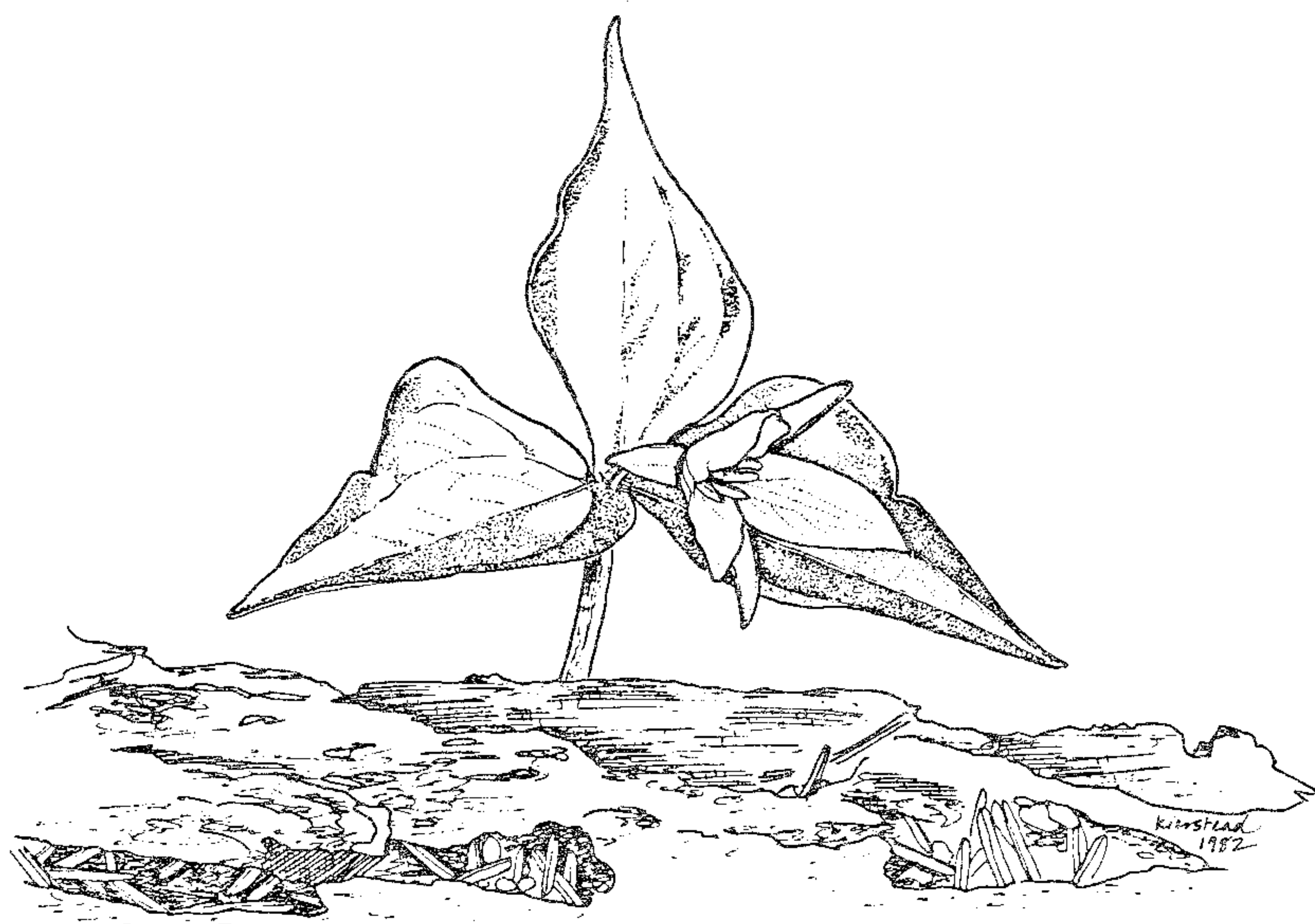
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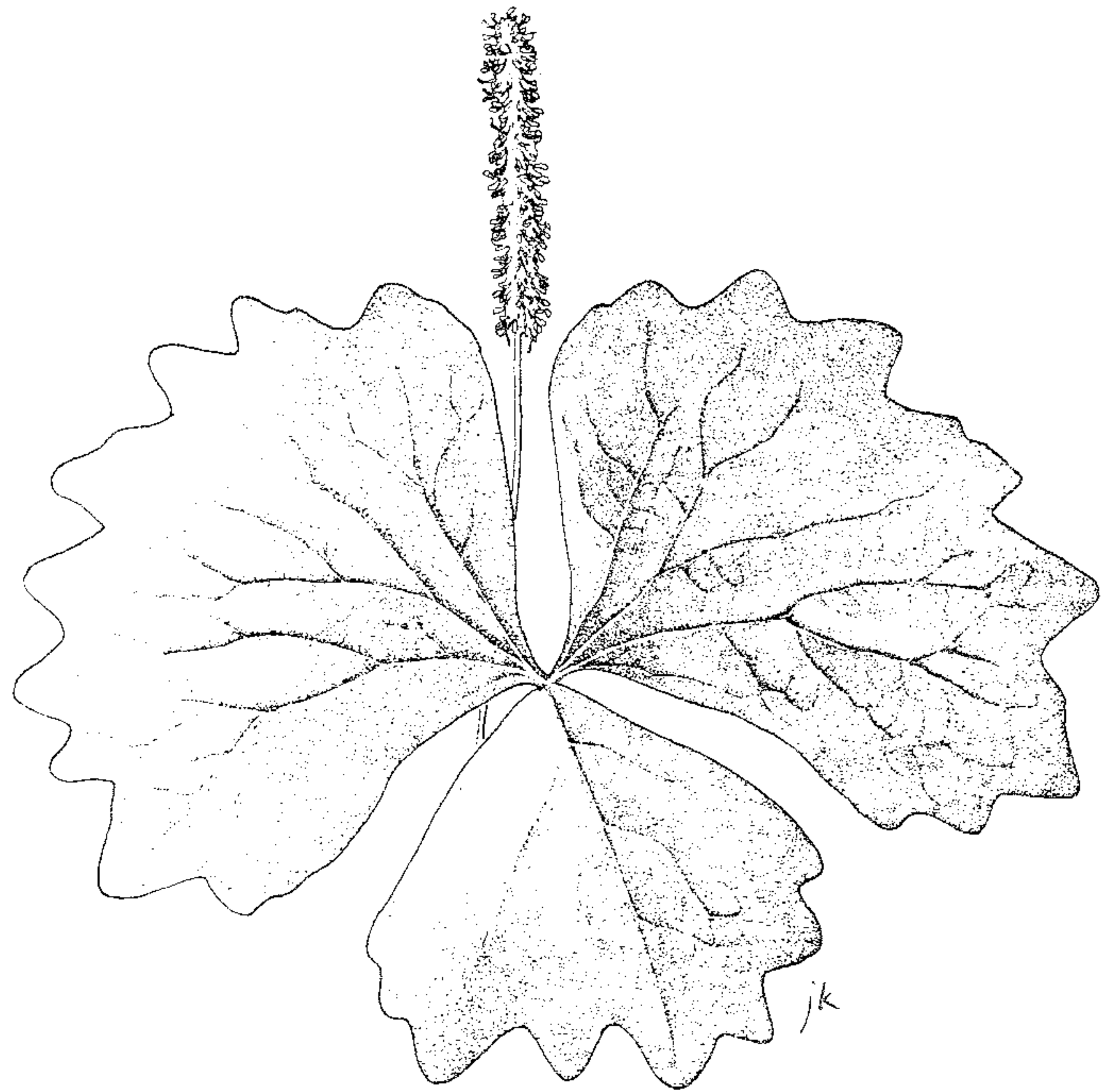
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(This bibliography was printed in the Lane County Audubon Society's newsletter, *The Quail*, in December, 1986.)



drawing by Julie Kierstead



THE FOREST

*I am the heat of your hearth,
During cold winter nights;
I am the friendly shade
Which you find when you walk
In the summer sun;
My fruit quenches your thirst
On the road;
I am the table in your house,
The bed on which you repose,
The wood of your boat,
I am the handle of your spade,
The door of your dwelling,
The wood of your cradle,
And your coffin,
You who pass, hear me well,
DO ME NO HARM.*

(From an engraving in the Garden of Marimurtra in Spain)

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

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

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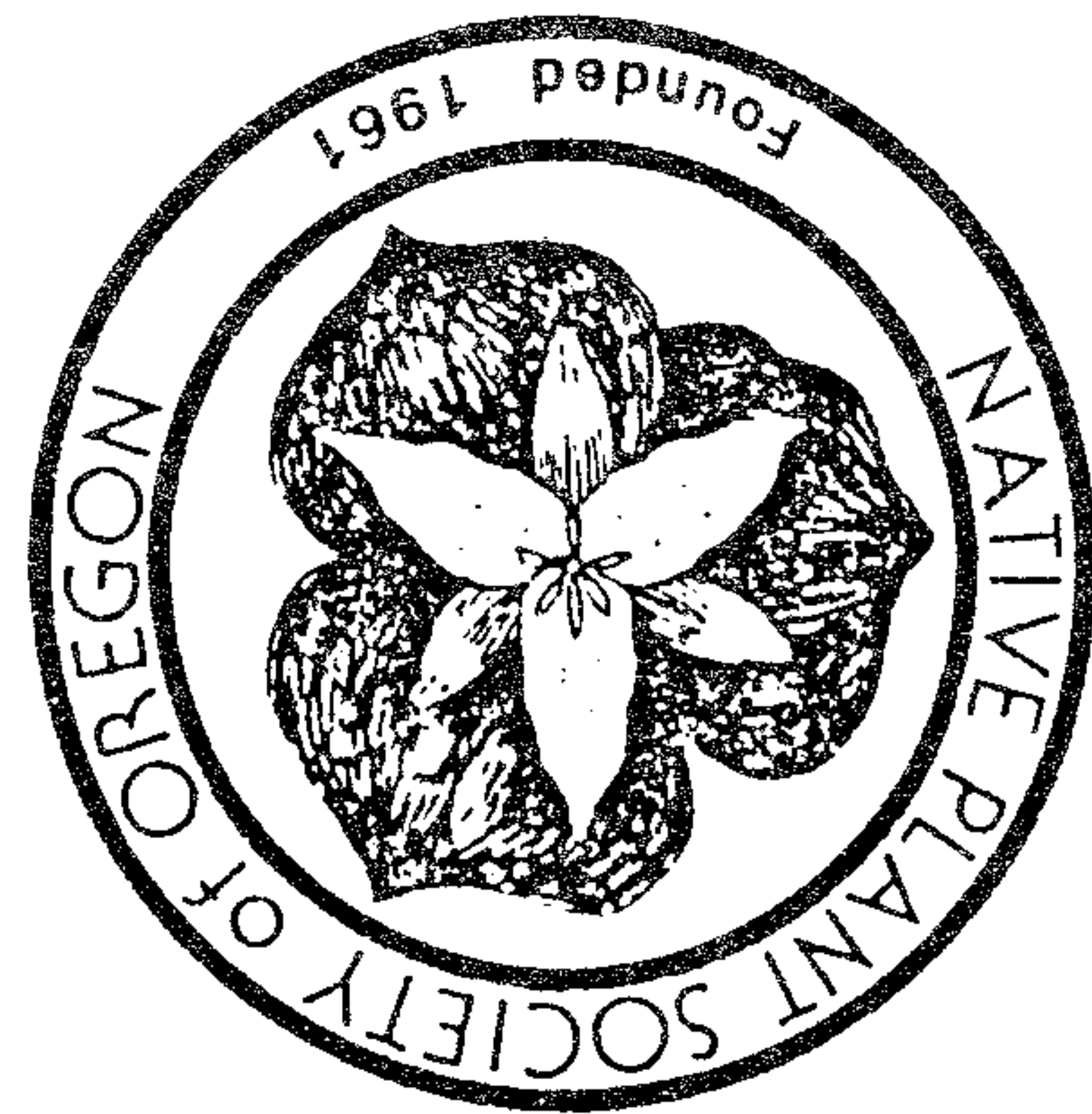
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