

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

Dedicated to the enjoyment, conservation, and study of
Oregon's native vegetation

VOLUME 23 NUMBER 12

DECEMBER 1990

ISSN 0884-599

CHAPTER NEWS

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips 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. Participation is at your own risk. Bring water and lunch. All NPSO activities are open to the public at no charge (other than carpool mileage), and friends, newcomers and visitors are always welcome.

Notice to field trip chairs and leaders: The Forest Service and other Federal agencies have set policies limiting group size in wilderness areas to 12. The reason for this is to limit the human impact on these fragile areas. As we are often in the position of asking them to follow their rules and regulations for conservation of our natural resources, it's time for us to do the same. Each group using wilderness must be no larger than 12.

Blue Mountain

3 Dec., Mon.

MEETING. 7:30pm in Room 130, Morrow Hall, Blue Mountain Community College.

Corvallis

10 Dec., Mon.

MEETING. 7:30pm at the home Tom Kaye, 4550 SW Nash, Corvallis. Bring a desert to share and slides or pictures to share.

Emerald

High Desert

For information, call Jennifer Dimling (343-3242)

For information, call Bill Hopkins (388-7434).

Mid-Columbia

5 Dec., Wed.

MEETING POSTPONED. Due to a conflict with the school's holiday program, December's program will be postponed until January. See below.

2 Jan., Wed.

MEETING. 7:30pm at the Mosier School. Jerry Igo will present his latest video production "Seasons in the Gorge", postponed from December.

North Coast

13 Dec., Thurs.

MEETING. 7pm Ed and Myra Stiernberg's, 6970 Alderbrook Rd., Tillamook. Bring a 'hot dish' for potluck dinner. RSVP 842-7499 or 842-7023 by Dec. 10th.

Portland

11 Dec., Tue.

MEETING. 7pm at First United Methodist Church, 1838 SW Jefferson St., Portland. Member's night. Everyone is especially welcome as we all show the unique and unidentifiable flowers we have seen over the past year. Please bring up to 10 of our unique or unidentifiable plant slides. A goodies potluck will be ongoing. If your last name starts with A thru H bring some cookies, I thru P bring some fruit or if Q thru Z bring 1/2 to 1 quart juice as we celebrate this annual event.

Siskiyou

13 Dec., Thurs.

MEETING. 7:30pm in Room 171 of the Science Bldg. at Southern Oregon State College. Recently returned from Yellowstone National Park, Dr. Paul Lemon, fire ecologist, will briefly discuss how, why and what happened in the summer of 1987 and then speak on vegetation recovery and the "let burn" policy for national parks.

South Coast

For information on formation of this pending chapter, contact Jim Curran (396-4939).

Umpqua Valley

20 Dec., Thurs.

MEETING. 7pm, 240 Vinyard Ln., Roseburg. Potluck--bring slides of Douglas County natives. Plan events for the coming year. Dress warmly. Call 673-3709 for directions.

Willamette Valley

For information, call Mary Anne Westfall (266-7967)

William Cusick

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

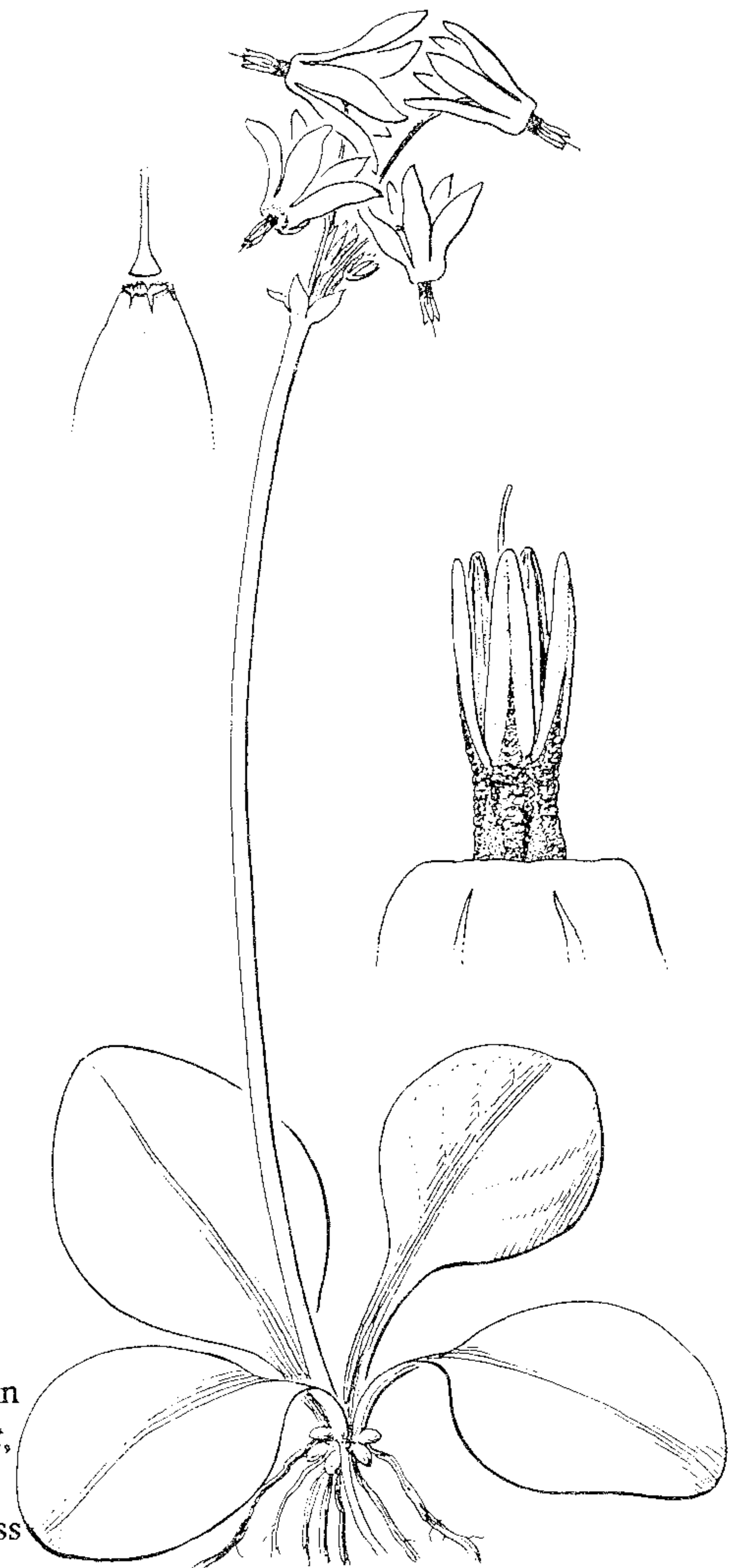
OUR RARE & ENDANGERED PLANT FUND

The R & E Fund is due for a new look. The Fund was founded many years ago to provide support for our rare and endangered species work. The Board has decided to rejuvenate it. This Fund will now operate as a separate entity and stand apart from our general fund. It will continue to support projects related to rare, threatened or endangered plants and disbursements will be controlled by the Board. A novel approach will be tried in the allocation of contributions to this fund. This method is perhaps best referred to as the "50-50" rule. One-half of all donations to this Fund will go into a capital account to accrue interest for future projects. The other fifty per cent will be available for projects that year. Any unused monies will revert into the capital account. The same strategy will control what happens to the interest from the capital part of the Fund. This will allow us to support projects while building a source for stable and ongoing funding in the future.

-----Stu Garrett, NPSO Past President, Eastside
Conservation Chair

Dodecatheon hendersonii

Drawing by Jeanne R. Janish in
Flora of the Pacific Northwest,
by Hitchcock and Cronquist,
University of Washington Press



THE EASTSIDE CONSERVATION REPORT

"HE WHO SLINGS MUD, LOSES GROUND"

At the September NPSO Board Meeting, the Board elected to divide the Conservation Chair into eastside and westside divisions. I have been given the opportunity to coordinate our efforts east of the Cascades. A westside co-chair will be named soon. I would like to bring NPSO members up to date on the important issues we face "on the dry side".

NEWBERRY NATIONAL VOLCANIC MONUMENT

The good news first! Oregon is now the home of America's newest national monument...and NPSO played an important role! Newberry joins the John Day Fossil Beds and the Oregon Caves as the third such designation in Oregon. The Newberry Monument is much larger than these previous designations and is of greater ecological significance. Over 60,000 acres will be protected from logging and geothermal development by the Monument. It preserves the habitat of one of Oregon's rarest endemics, *Botrychium pumicola*, the pumice grapefern, which is awaiting Federal listing under the Endangered Species Act. It preserves significant examples of five major plant communities from the riparian along the Deschutes River to the subalpine at Paulina Peak, including climax pine ecosystems. NPSO was involved in the Newberry proposal from its inception three years ago. The High Desert Chapter, the State Board, and individual members statewide contributed to the effort. Your support has paid off! Come and visit our newest Monument!

CYANIDE HEAP-LEACHSTRIP MINING FOR GOLD

The Middle East crisis affects us in ways we don't yet know. Each price rise in gold brings cyanide heap-leach mining closer to reality in Oregon. Over 70,000 gold claims have been filed on Oregon public lands in the last three years.

One mine (Grassy Mountain in Malheur County just west of the Owyhee Reservoir) is well along in the permit process and a handful of others are close behind. The High Desert Chapter, the State Board, and numerous members have expressed a high level of concern that effects on vegetation and rare plants from this type of mining could be severe, and that it should be closely regulated in Oregon to minimize environmental impacts.

The Grassy Mountain Plan of Operations calls for placing tailings on the probable site of the rare

Lupinus biddlei, Biddle's Lupine. *Eriogonum crobyi*, Crosby's buckwheat, was an indicator plant for gold in Nevada and populations there were lost. Malheur County has a number of rare and endangered local endemics. We must be certain that things are different here. Plant surveys must be thorough and reclamation must be complete. Practices should encourage natives and discourage exotics. The BLM and USFS should be held to high environmental standards.

This issue is likely to reach a high profile in the 1991 Oregon Legislature. Our status as the leading educational group regarding native plants and rare plant species in Oregon puts us in an important position to advise on these issues. Reform of the 1872 Mining Law is an essential part of protecting our public lands. NPSO's involvement in this national initiative will be minor but look for some changes to come out of the next Congress. If you wish to be active, let me know. You might also want to lend your support to another grassroots organization which is doing great work:

Concerned Citizens for Responsible Mining
2013 Westridge Drive,
Ontario, Or 97914.

On September 8th we had a very successful Mining Forum in Bend. Sponsored by the BLM, OEC, USFS, and DOGAMI, it was an attempt to air concerns and discuss a variety of mining issues. Environmental problems figured heavily in the conference, which was attended by over 200. A legislative agenda is being prepared by OEC.

BLM SENSITIVE LIST

The state BLM is compiling their first list of rare and endangered species for Oregon. We hope that it will be out soon and will be as comprehensive as the Heritage Database's list. Cheryl McCaffery is pushing this effort and I will report on the results. Let her know you wish all species of concern to be on it.

GRAZING

More attention will be focused on this use of our lands. Progress has been made in making the public, agencies and even the ranchers aware of the problems associated with overgrazing. Russ Jolley's superb efforts to draw attention to problems with grazing in the Gorge is an excellent example of our ability to influence agency policies.

A boycott of beef produced on public lands is in the works. The cry of "Cattle Free by '93" is also being heard. These measures are not the sort of thing that NPSO has supported in the past. I believe (and I think most of our members agree) that cattle don't necessarily need to be totally eliminated from all public lands. They do need to be controlled. Riparian areas need especially to be protected. Uplands need some rest from grazing for their good health. The invasion of exotics and the loss of soils needs to be stopped. Please let me know your personal and/or Chapter views on this issue.

T AND E PLANTS

Stephanomeria malheurensis, the Malheur wire-lettuce, remains a taxon of concern. As one of three federally listed Oregon plants, we would like to see it doing well. Unfortunately, this annual didn't show up again this year. Since the mid-1980's this plant has been at critically low levels, with no native plants having been seen for three years. In 1987 we cooperated with BLM in planting seedlings at its only known location on a hillside south of Burns. Jay Carlson of the Burns BLM is coordinating the District's recovery plants for this plant and seems to be diligent and concerned. At this time it appears that cheatgrass competition is the most likely reason for its demise. A draft recovery plan is being developed.

Bob Parenti, the Rare Plant Coordinator for the USFWS in Boise, attended our annual meeting and addressed the Board regarding the federal listing process for plants. The bottom line is that he blamed the excruciatingly slow process of listing plants on lack of money and manpower.

A recent internal audit by Department of Interior staff backs this and endorses changes. We must assist in any way we can to making listing a priority and push for it. It will happen eventually. NPSO must help to make sure the plants are still there to enjoy the benefits of being listed.

More good news is that the eastside National Forests have been much better about surveying for rare plants and have been hiring more botanists and locating more sites than ever before. These folks are concerned about non-commodity values and are able to represent this view in agency deliberations. They need our support and encouragement.

---Stu Garrett, MD, Immediate Past President
NPSO and Eastside Conservation Chair

NORTHWEST WEEDS

By Ronald J. Taylor
Mountain Press Publishing Co.
Missoula, Montana, 1990

Dr. Taylor, who is a botany professor at Western Washington University, will be known to many readers as the author of *Wildflowers 2--Sagebrush Country* (Touchstone Press, 1974). He subtitles this new book "*The Ugly and Beautiful Villains of Fields, Gardens, and Roadsides*", a phrase summing up many a persons' feelings about weeds as plants that are unattractive and that grow where we humans don't want them to. This perspective may be softened, however, by the many "beautiful villains" which he describes and illustrates, whose form and flowers are really very attractive if viewed objectively (in other words while ignoring their pesky habits).

The book covers 190 species of weeds, representing a wide range of plant families from horsetails, ferns, and grasses to daisies and dandelions. For each plant there are one or more color photographs, usually including a close-up of the flowers or fruits. These illustrations are, on the whole, well selected for the book's purpose, showing the diagnostic traits of each weed and allowing the reader to distinguish between 'look-alikes'. Users of the book will also find the written descriptions to be a help in discriminating among various closely related species. Included in the text are a glossary and illustrations of technical botanical terms, as well as a bibliography of 14 reference books. An additional book that this reviewer suggests should be on the list is "*Gilkey's Weeds of the Pacific Northwest*" by La Rea J. Dennis and available from the Oregon State University Book Store.

Dr. Taylor's book is primarily an identification manual, rather than a textbook of weed science. Miscellaneous informative facts are provided along with the species descriptions. However, the weeds are not listed or indexed by the crops they infest, their edibility or possible poisonous effects (e.g., those dangerous to humans or to particular livestock), or by a scale of ratings from the truly noxious to merely an occasional nuisance. In practical terms, the book should be a great help in determining the correct names for those familiar plants we see every day, thriving in habitats created or disturbed by us humans.

---Ken Chambers, Corvallis Chapter,
Curator OSU Herbarium

NEWBERRY'S GENTIAN, AND THE EFFECT OF BIASED COLLECTIONS ON TAXONOMY

Recently, I collected a specimen of *Gentiana newberryi* from a meadow near McKenzie Pass in the central Cascades. The flowers on my sample were withered but persistent at this date, and the plants were in fruit. This species is on the Oregon Natural Heritage Program's List 2 (taxa threatened in Oregon but more common or stable elsewhere), so I looked at specimens of gentians at the OSU herbarium to confirm the identity of my material. To my surprise, only one out of several dozen collections had a plant with a fruit.

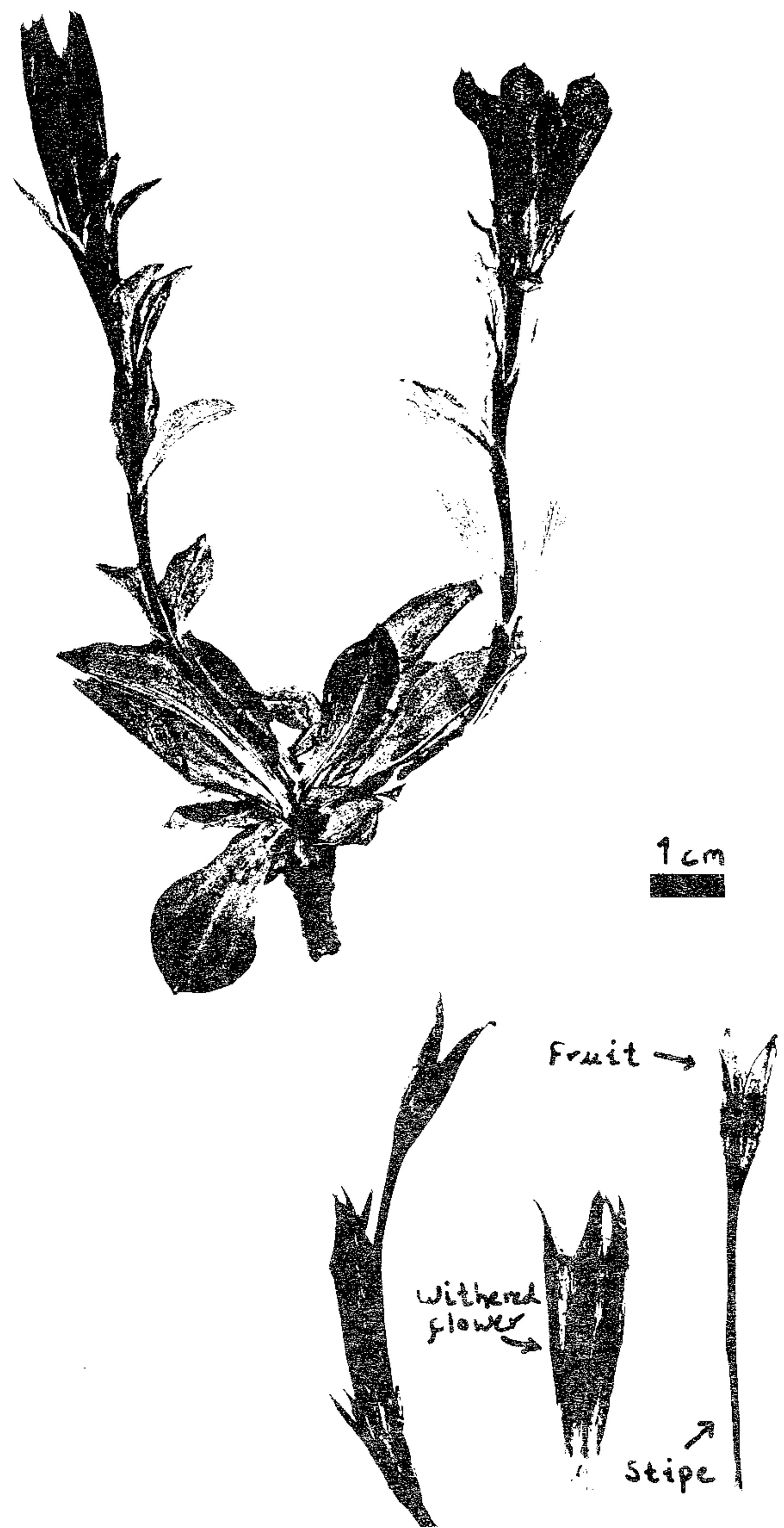
Not only did this make it difficult to identify my specimen (which Dr. Ken Chambers was, fortunately, able to do), it pointed out a need for specimens of gentians with mature fruits. Upon checking the technical descriptions of *G. newberryi*, it was apparent that mature fruits of the species had rarely been observed by taxonomists. The fruits of this species are *described* as being held atop an 8 mm stipe. But the stipes on my specimens were 40-50 mm long, elevating the fruit to a position far above the withered flower! In fact, most species of gentian are described as having short stipes, but I suspect that longer stipes, apparent only on specimens with mature fruits, are the norm. If the stipe were to remain short and fail to lift the fruit, the fruit would dehisce within the dried corolla and seed dispersal would be restricted--a trait usually not favored by natural selection.

The problem is that gentians are most conspicuous in flower, and they flower late. This makes the collection of plants in fruit doubly unlikely, because collectors are often attracted to the showiest individuals in a population, and, by the time gentians are in fruit, many collectors have completed their field season. The result is a dearth of information on gentian fruiting morphology available to taxonomists, leading to an in-

complete (if not misleading) taxonomy. Unfortunately, this may be the case with many genera of plants.

So, if you collect plants and you find gentians in fruit, collect a specimen (if the population will allow), and deposit it at a local or regional herbarium.

--- Tom Kaye
Corvallis Chapter



Newberry's gentian in flower and fruit. Note the elongate stipe. (Illustration submitted by Tom Kaye.)

RARE PLANT FOCUS OF COOPERATIVE STUDY

The Long Tom Area of Critical Environmental Concern (ACEC) is a mere seven acres of public land isolated in the Willamette Valley about ten miles northwest of Eugene. It is located in the floodplain of the Long Tom River, north of Fern Ridge Reservoir. It has been singled out as the focus of a study on the survival of a rare plant, *Lomatium bradshawii*, Bradshaw's parsley.

Lomatium bradshawii is a historic inhabitant of the Willamette Wet Prairie Ecosystem and was listed in 1988 on the Federal Endangered Species list by the US Fish and Wildlife Service. Laws require that any publicly owned lands containing endangered or threatened plant species be managed to perpetuate the existence of these species.

Since very little was known about the plant's ecology, BLM initiated a cooperative study to improve our knowledge. The study is a cooperative effort between BLM's Eugene District, the Nature Conservancy and OSU. The purpose of the study was to establish a permanent monitoring program for the plant at this site. The study began in the spring of 1990 and is coordinated by BLM Botanist Nancy Wogen. Most of the actual work is being accomplished by OSU graduate student Kathy Connelly with a \$7,000 matching grant from BLM. Ms. Connelly is conducting the study in association with the completion of a MS degree in Range Resources/Ecology. The study consists of establishing transects and plots to measure the changes in community structure of the prairie and to study the population dynamics of *Lomatium bradshawii* in response to prescribed fire. Fire isn't new to this area. Historically, fire contributed to the maintenance of an extensive open prairie throughout the Willamette Valley. The study site was burned in mid-September under the direction of the BLM Fire Management Specialist. The prescribed fire was a success although the optimum results of total woody material elimination were not obtained. An evaluation and final study report are being prepared and should be finalized by early 1991. The study should provide BLM with solid baseline information on *Lomatium bradshawii* and the ecosystem upon which it is dependent. BLM will be in a better position to manage this rare plant and ensure its existence in the future.

---Doug Huntington, BLM Public Affairs
Director, Eugene Office

EMERALD CHAPTER SURVEYS "BOMB CRATER" IN NATIONAL FOREST MEADOW

Last summer, Emerald Chapter Vice-President Tom Pringle was climbing Mount David Douglas in the Willamette National Forest east of Eugene. Gazing at a mountain meadow below, he noticed a strange, doughnut-shaped disturbance. Hiking down for a closer look, he was startled to discover an enormous, manmade excavation in the meadow. Pringle was reluctantly drawn to the conclusion that the agent of destruction was a ring of dynamite used literally to blast a "bomb crater" in the midst of a fragile meadow ecosystem.

Emerald Chapter decided to visit the meadow on Oct. 13 to assess the disturbance. On Sept. 27, our conservation co-chair wrote the Willamette National Forest asking if their wildlife biologists and botanists might accompany us on this trip. We also asked what the rationale was for this disturbance, and we further wanted to know if plant lists existed for the area and whether permits had been obtained and if mitigation was planned. Finally, we asked for a list of other sites where this sort of activity had taken place or was planned. We had no written reply nor acknowledgement of our letter by the time we took our field trip; however, an Oakridge District botanist accompanied Pringle to the site before the trip.

Shrugging off wet conditions from above and below, 7 Emerald Chapter members visited Wall Creek Bog on a rainy Saturday, Oct. 13. The beautiful low-elevation bog is at about 2920 ft. It is in Oakridge Ranger District, off Salmon Creek Road. We drove north of Oakridge toward Blaire Lake Meadow, then turned off on High Prairie Road. The bog nestles beside bubbling Wall Creek in a gorgeous patch of moss-festooned ancient forest. We were able to learn that the bog was dynamited in 1987, but the scars are still open and ugly. Despite the late season, our field trip participants were able to start a plant list for the area. Later, with the kind help of Dr. David Wagner of the UO Herbarium and Dr. John Christie of the Nature Conservancy, a preliminary list of 37 species, many of them sedges, rushes, mosses and liverworts, was compiled. Plants of interest include: Poison water hemlock, *Cicuta douglasii*; the insectivorous sundew, *Drosera rotundifolia*; *Dulichium arundinaceum*, an unusual sedge; the thallose liverwort, *Marchantia polymorpha* and the mosses, *Meesia triquetra* and *Aulacomium palustre*.

After the trip, on Oct. 15, Tom Pringle wrote the Willamette National Forest again asking for the information requested in our Chapter's September letter. Finally, on Nov. 2, the Forest Service responded to our letters. They apologized for not answering sooner and admitted that for the blasting and back hoe projects, Decision Notices were not done and other NEPA-related actions were not performed! They stated that no interdisciplinary planning effort was involved and no professional botanical input was utilized. However, they assure us that if such actions were taken today, they would proceed differently, and they further request NPSO input on management decisions on the Willamette National Forest.

Please watch these pages for an update on what we hope will not become an agency trend to blast holes in forest meadows. Let Tom Pringle know if you find evidence of similar activity on other Federal land. His number is (503) 484-0669. We hope to be able to write a more comprehensive article when we learn the Forest Service's rationale for this "management" of our public lands.

---Tom Pringle and Rhoda Love
Emerald Chapter, Eugene

GRANT PROPOSALS REQUESTED

The Native Plant Society of Oregon will continue to sponsor small research grants. The objectives of the program are: 1) to stimulate basic field research into the biology and distribution of Oregon's native and naturalized flora and vegetation, particularly in the more remote areas of the state, and 2) to promote native plant conservation through better understanding of Oregon's flora and vegetation and the factors affecting their survival. Also, priority will be given to designation of the Leighton Ho Field Botany Award as a matching grant for a cooperative project with The Nature Conservancy. Information on TNC's research needs can be obtained from Cathy Macdonald, Director of Stewardship, 1205 NW 25th, Portland, OR 97210. (503) 228-9561.

Those interested in applying for funding can obtain a copy of the program policy and guidelines from Dan Luoma, Research Grants Committee Chair, 2912 N.W. Arthur Ave., Corvallis, OR 97330. Research proposals are due by March 1, 1991.

---Dan Luoma

REMEMBER LEIGHTON HO (1951-1987) DURING THIS HOLIDAY SEASON

My good friend, Leighton Chee Won Ho, died in a tragic drowning accident on the island of Kauai, Hawaii on December 20, 1987. I think of Leighton often, but I remember him especially at this holiday season as the anniversary of his inexplicable death approaches. Leighton was the president of NPSO's Emerald Chapter from 1983 through 1985, and during his presidency he helped our chapter become involved in a number of important environmental issues, including the fight to establish the Waldo Lake Wilderness and our efforts to conserve coastal ecosystems.

When Leighton died, contributions from his many friends and from his bereaved parents in Hawaii poured in to NPSO, and the Leighton Ho Memorial Fund was established in his name. A special account was opened in Feb., 1988 and the funds and interest they accrue were dedicated to the awarding of an annual Leighton Ho Field Botany Award for summer botanical research.

The first recipient of the Leighton Ho Award was Jennifer Dimling of Eugene (now Emerald Chapter president), who used her \$400 to study *Sidalcea* in southwest Oregon. The second year's award was to Robert Misley of Clackamas Community College who studied *Delphinium leucophaeum*. This year's award, the third, was matched by The Nature Conservancy and used to study *Silene spaldingii*.

Outgoing NPSO Treasurer Daphne Stone has just informed me that the Leighton Ho Fund presently contains \$2,048 and that it earns approximately \$100 in interest each year. The Leighton Ho Field Botany Award is given annually and amounts to \$400. Some simple arithmetic reveals that, at the very least, \$300 in contributions to the fund need to come in each year if NPSO is to be able to offer this award year after year.

Please follow my example during this season of giving and, as you pay your NPSO dues, or write your end-of-year checks to charitable organizations, send a contribution to the NPSO Leighton Ho Fund. I don't mean to be disrespectful to the memory of a cherished friend when I remind you that during this season of HO HO HO, you may wish to remember our own LEIGHTON HO. Many thanks and happy holidays to you all.

---Rhoda Love, Emerald Chapter

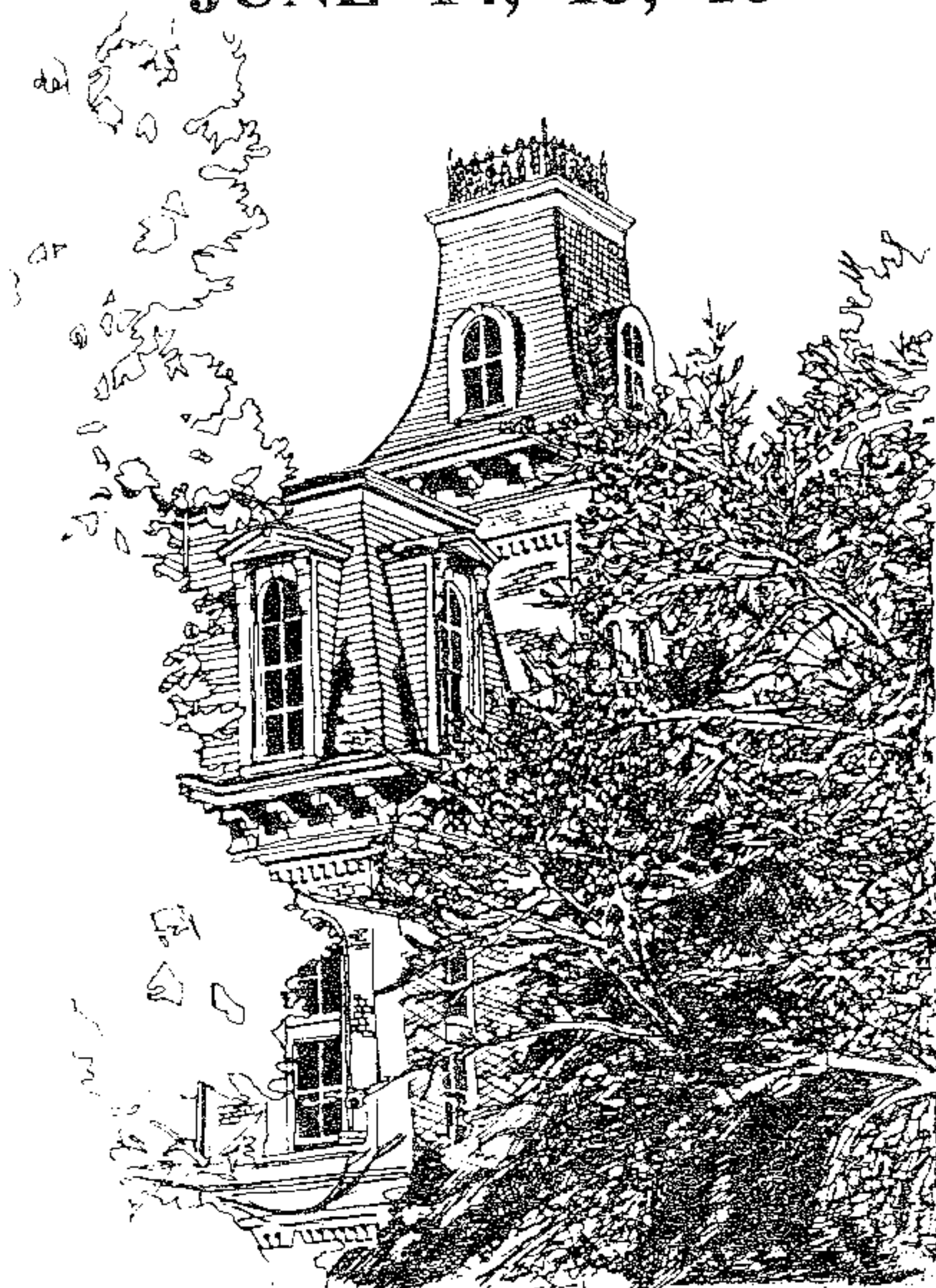
1961 *** NPSO *** 1991

30th ANNIVERSARY ANNUAL MEETING
COME JOIN US FOR THE BIG BIRTHDAY PARTY!

MARK YOUR CALENDARS NOW:

**MEETING TO BE HELD ON THE
UNIVERSITY OF OREGON CAMPUS, EUGENE**

**FRIDAY, SATURDAY AND SUNDAY
JUNE 14, 15, 16**



(The University of Oregon)

**Banquet Speaker: Dr. Linda R. McMahan,
Executive Director, Berry Botanic Garden**

HOSTED BY EMERALD CHAPTER

* * *

**Registration Materials and More Information
in your January BULLETIN**

Annual Meeting Chair: Charlene Simpson

HISTORY OF THE JEAN DAVIS AWARD

The Jean Davis Memorial Scholarship fund was established in August 1979 in memory of Jean Davis, who passed away while on a field trip in the Cascades with several other members of the Willamette Valley Chapter of NPSO.

Jean was a charter member of the Willamette Valley Chapter, and her husband felt this was the way he wanted to honor her. A request for donations to the fund in lieu of flowers was made and several sizable donations were received. Mr. Davis then increased the fund to \$10,000 and a committee was formed to set up guidelines for the recipients of the scholarships.

After deliberations it was decided that the recipient must be one that will be attending an Oregon college, and plans to study plant systematics or plant ecology. The recipient is to have completed at least two years of satisfactory college work by July 1 of the year of application and be a full time student. Graduate students may be eligible if they meet all qualifications except that of being a full time student. The award is in the amount of \$1000, and will be paid directly to the school of choice, to be used toward tuition within the following academic year.

Applications are available from Mary Falconer, Chairman, Scholarship Committee, 1920 Engel Avenue NW, Salem, Oregon 97304. They must be completed and sent to the above address no later than April 1 of the year of applications. The award will be made by May 1 and is usually announced at the NPSO Annual Meeting.

Since the establishment of the fund there have been some donations in memory of other NPSO members. Any donations will be gladly accepted and should the fund grow to the necessary size there could be additional scholarships awarded.

From these funds 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 \$1000, to be used toward the student's tuition within the following academic year. Deadline of applications is April 1. The award will be made by May 1.

Donations to the scholarship fund are tax deductible and are welcome at any time. All interest earned from the donations is apportioned

to as many scholarships as possible in the spring of each year, at \$1000 each. All communications regarding this fund should be addressed to:

Mary Falconer,
Scholarship Committee Chair
1920 Engel Avenue NW
Salem, Oregon 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 \$1000 to worthy students who will complete at least two years of satisfactory college work by July 1 of the year of receipt of application and 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 is presented to the recipient.
 - b) A check in the amount of the award is 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 and career intent.
 - b) Two letters of reference from persons able to judge the 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 Scholarship Committee Chair no later than April 1. The award will be made by May 1.
- 7) Scholarships cannot be granted to Scholarship Committee members or their relatives.

---Mary Falconer
Willamette Valley Chapter

BITS AND PIECES
—News and Information From All Over

FOREST SERVICE TO STUDY HEALTH
OF BLUE MOUNTAIN FORESTS

Regional Forester John Butruille has appointed a task force to study the health and condition of the Malheur, Umatilla, and Wallowa-Whitman National Forests. Damage from insects and disease have been aggravated by several drought years, and there is concern in the Forest Service that measures need to be found to restore these forests to a healthy condition.

The task force is chaired by Bill Gast, Deputy Forest Supervisor of the Wallowa-Whitman National Forest. Other members of the committee are Entomologist Don Scott, Pathologist Craig Schmitt, Ecologist Charlie Johnson, and Silviculturist Dave Clemens. All are Forest Service employees.

The task force will work closely with the Blue Mountains Natural Resources Institute. The Institute is a LaGrande-based body of county, state, and federal officials concerned with overall forest health. The stated goal of the study is to analyze the condition of the three forests and recommend procedures to rehabilitate them and maintain their health in the long term. The six month study is due for completion in March 1991. Bill Gast states that any actions recommended will be consistent with forest plans already in effect.

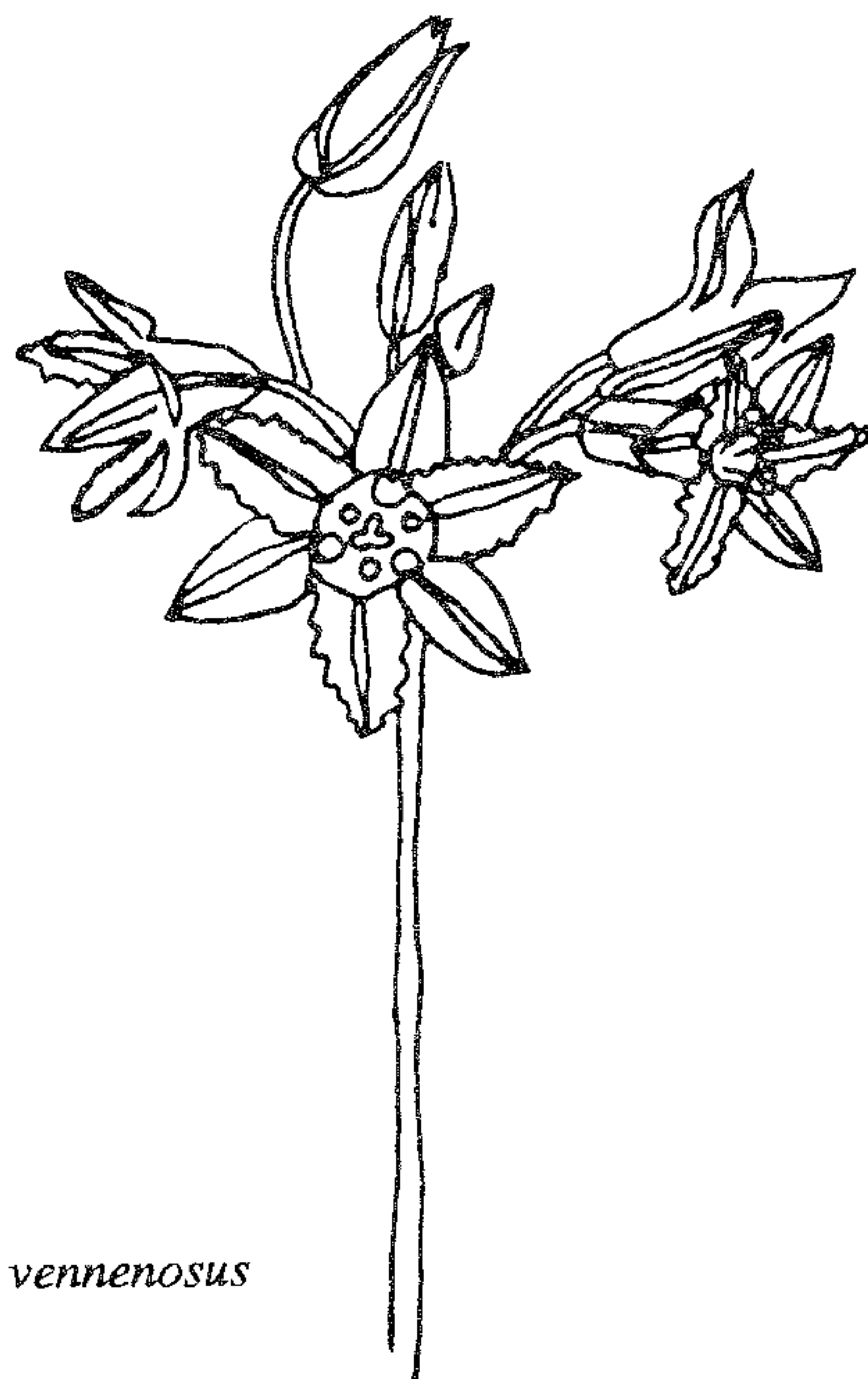
THE NORTHWEST
ENVIRONMENTAL JOURNAL

The Institute for Environmental Studies of the University of Washington has for several years published the *Northwest Environmental Journal*. This twice-yearly publication covers western Canada, Alaska, Idaho, western Montana, Oregon and Washington. Each issue contains about 175 pages on contemporary environmental subjects, book reviews, research notes and an interview. All articles are pertinent specifically to our Northwest region.

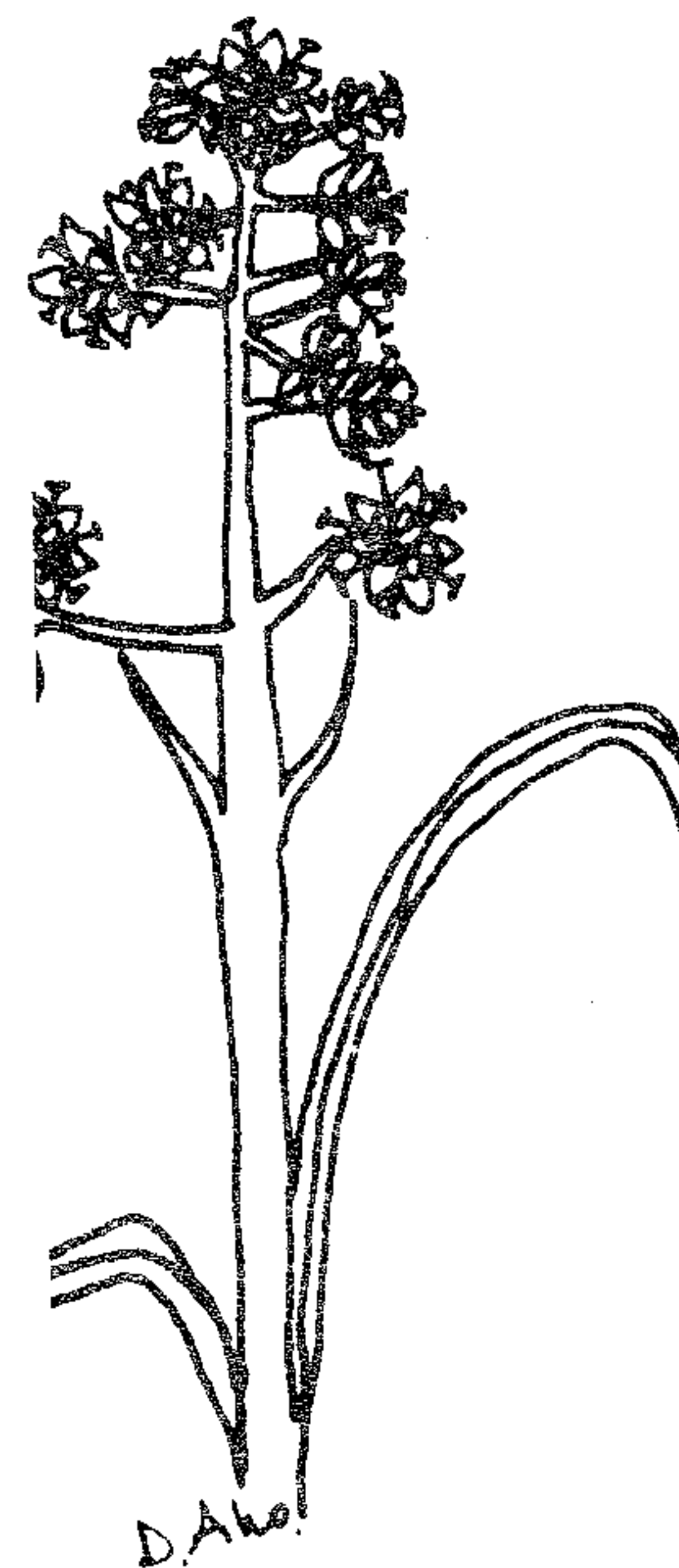
Recent articles have focused on wood smoke effects and legislation, gray wolves in the North Cascades, wetlands and estuaries, regional solar access protection, Hanford, spotted owls, old growth and environmental issues surrounding oil. Members wishing to keep up to date on regional environmental concerns and conflicts may find this Journal of value.

A one year subscription currently costs \$22 for individuals, or \$14 for one issue. Orders or inquiries should be sent to:

Journal,
Institute for Environmental Studies (FM-12)
University of Washington
Seattle, Wa., 98195



Brodiaea douglasii and *Zigadenus venenosus*
Drawings by Diane Aho



STATE OFFICERS
 DIRECTORS..... Paula Brooks, John Christie, Tom Kaye, Barbara Mumblo, Kathy Schutt, Marjorie Willis
 PRESIDENT Stephanie Schulz. 652 W. 10th St. #1, Eugene 97402; 485-1868
 IMMEDIATE PAST PRESIDENT ... Stu Garrett. 21663 Paloma Drive, Bend 97701; 389-6981
 VICE PRESIDENT Dan Luoma. 2912 NW Arthur Ave., Corvallis 97330; 758-8063
 SECRETARY..... Sue Vrillakas. 1120 NE 162nd, Portland 97230; 253-7080
 TREASURER Diane English. 3383 W. 14th, Eugene 97402; 484-9287

STATE COMMITTEE CHAIRS
 RARE AND ENDANGERED Jimmy Kagan. 1724 SE 57th Ave., Portland 97215; H-233-1048; W-229-5078
 CONSERVATION, East Side Stu Garrett. 21663 Paloma Drive, Bend 97701; 389-6981
 CONSERVATION, West Side
 LEGISLATIVE Esther McEvoy. 3290 Willamette, Corvallis 97333; 754-0893
 MEMBERSHIP Mary Falconer. 1920 Engel Ct. NW, Salem 97304; 585-9419
 WILDFLOWER POSTERS Susan Gabay. P. O. Box 151, Mosier 97040; 478-3576
 NOTECARDS Nancy Fredricks. 34213 Riverside Dr. SW, Albany 97321; 967-1893

CHAPTER PRESIDENTS
 BLUE MOUNTAIN (Pendleton) .. Bruce Barnes. 731 NW 5th, Pendleton 97801; 276-5547
 CORVALLIS Nancy S. Weber. 2160 NW Beechwood Pl., Corvallis, 97333; 753-9626
 EMERALD (Eugene) Jennifer Dimling. 2209 Hawkins Ln., Eugene 97405; 343-3242
 HIGH DESERT (Bend) Bill Hopkins. Silvicultural Lab, Bend 97701; 388-7426
 MID-COLUMBIA Keith Chamberlain. Box 271, Mosier 97040; 478-3314
 NORTH COAST Sallie Jacobsen. 6800 5th NW Cape Meares, Tillamook 97141; 842-4350
 PORTLAND Mike Fahey. 215 Phoenix Way, Vancouver, Wa 98661 206-694-2902
 SISKIYOU Darren Borgias. 59 Union St., Ashland 97520; 482-8196
 UMPQUA VALLEY (Roseburg) .. Russ Holmes. 322 Arcadia Drive, Roseburg 97470; 672-4635
 WILLAMETTE VALLEY (Salem) . Mary Anne Westfall. 2375 Madrona Lane, Canby 97013; H-266-7967
 WM. CUSICK (LaGrande) Karen Antell. Biology Dept., EOSC, LaGrande 97850; 963-0267

BULLETIN EDITOR. Bryan Boyce. ... 13285 S. Clackamas River Drive, Oregon City 97045-9411; 655-4457

GUIDELINES FOR CONTRIBUTORS

The NPSO *Bulletin* is published monthly, as a service to NPSO members and the public. Contributions of all types are welcome.
Deadline: Copy is due with the editor by the 10th of the month.
Text Format: Submissions can be in any form. Camera-ready copy should be in 3.334 in. wide columns up to 9.3 in long, with spacing between columns .22 in. The *Bulletin* uses 12 point "Times" font. Author's name and affiliation are added at the end of the article. Double space between paragraphs, and do *not* indent paragraphs. For special materials (e.g., plant keys) choose an appropriate format, keeping in mind that readers may wish to carry your article pasted inside their favorite field guide.
Computer Disks: The editor prefers articles submitted on MacIntosh

or IBM disks. Please contact the Editor for further details.
Illustrations: Line drawings and high contrast B&W prints are useable. Contact the editor about our current needs, or send along with your article.
Credits: If the item is not original, name and date the source. For original items, identify the author and indicate, for news items, if a by-line is desired. Indicate 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., when appropriate. Use of both scientific and common names is encouraged. *Italicize* genus and species (underline if italic is not available). **Return of Originals:** Submissions will not be returned unless requested.

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

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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

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

- () New () Renewal () Quarter Membership (Sep.-Dec.) \$3.00 () *Bulletin* Subscription only \$12.00
 () Student.....\$ 8.00 () Sustaining.....\$ 30.00
 () Regular.....12.00 () Patron.....100.00
 () Family Membership.....18.00 () Life Member500.00

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

* All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible. Please make checks for dues and contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form and full remittance to:
 Mary Falconer, NPSO Membership Chair, 1920 Engel Court NW, Salem, Oregon 97304.

In This Issue

Our Rare and Endangered Plant Fund---Stu Garrett. 128

Eastside Conservation Report---Stu Garrett. 129

Northwest Weeds---Kenton Chambers. 130

Newberry's Gentian---Tom Kaye. 131

Rare Plant Cooperative Study---Doug Huntington. 132

"Bombing" National Forest Meadow---Tom Pringle and Rhoda Love. 132

Grant Proposals Requested---Dan Luoma. 133

Remember Leighton Ho---Rhoda Love. 133

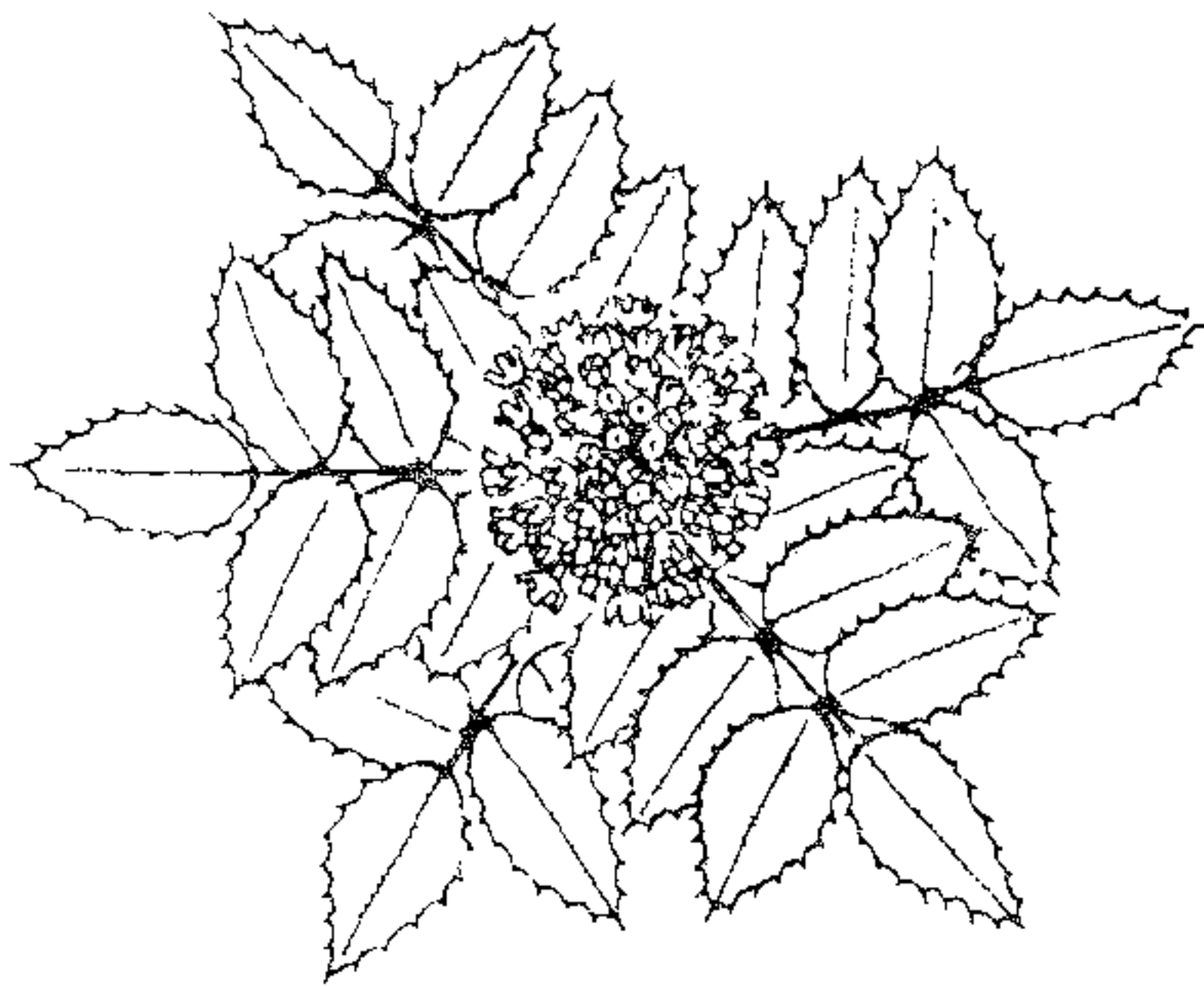
30th Anniversary Annual Meeting. 134

The Jean Davis Award---Mary Falconer. 135

Bits and Pieces. 136

Send change of address notices to:
Native Plant Society of Oregon
Mary Falconer, Membership Chair,
1920 Engel Court NW,
Salem, Oregon 97304

NON-PROFIT ORGANIZATION U.S. POSTAGE PAID Portland, Oregon Permit #2432



TIME DATED MAIL