



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

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## 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 no charge (other than carpool milage), and friends, newcomers and visitors are always welcome.

**Notice to field trip chairs and leaders:** The Forest Service and other Federal agencies have 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 areas must be no larger than 12.

### **Blue Mountain**

26 Mar., Mon.

**MEETING.** 7:30pm, Room 130, Morrow Hall, Blue Mountain Community College. Program to be announced. Call if you have any questions. Contact Bruce Barnes (H-276-5547; O-278-2222).

### **Corvallis**

12 Mar., Mon.

**MEETING.** 7:30pm in Room 4083, Cordley Hall, OSU, Corvallis.

### **Emerald**

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For information, contact Diane English (484-9287).

### **High Desert**

21 Apr., Sat.

**FIELD TRIP.** Leave at 8:30am sharp from behind the McDonalds at 4048 NE 3rd St., Bend. The Island RNA in Cove Palisades State Park features pristine essentially ungrazed meadow-steppe communities. Expect a rough, steep trail and possibly rattlesnakes. Geologist Larry Chitwood will add his expertise. Leader: Stu Garrett (389-6981 eves or 382-2811 days).

### **Mid-Columbia**

7 Mar., Wed.

**MEETING.** 7:30pm at the Mosier School. Dick VanderSchaff of The Nature Conservancy will discuss representative plant communities and botanically significant natural areas on the Oregon side of the Columbia River Gorge National Scenic Area.

## North Coast

- 1 Mar., Thurs. **MEETING.** 7pm at State Office Building, 3600 3rd St., Tillamook. Edward Stiernberg speaks about his work on pollen analysis.
- 25 Mar., Sun. **FIELD TRIP.** Leave at 12:30pm from the community college at 2510 1st. St., Tillamook. Destination is Gold Peak.
- 25 Mar., Sun. **FIELD TRIP.** Leave at 9:30am from the SW corner of the Cornet parking lot. Destination is Tillamook Head. Bring lunch and water. Contact: Sallie Jacobsen (842-4350).

## Portland

- 13 Mar., Tue. **MEETING.** 7pm at First United Methodist Church, 1838 SW Jefferson St., Portland. Glenn Walthall will present a slide program on the flora and amenities of hiking the west side of Mt. Hood.
- “WELCOME TO THE 1990 FIELD TRIP SEASON.” Each of the first four field trips involve no more than three miles RT hiking distance, and less than 400 ft. elevation gain. Please dress appropriately for any kind of weather, including boots. Bring a sack lunch, hot beverage, water, and handlens and notebook. For specific information call the field trip leader.
- 17 Mar., Sat. **FIELD TRIP** to Catherine Creek in the Columbia River Gorge, with the Willamette Valley Chapter. Leave from Lewis & Clark State Park (exit 18 off I-84 heading east) at 9am. Second meeting point-- at 10 am Bingen Winery on Highway SR14. Distance from Portland about 120 miles. Leaders: Dave and Jan Dobak (248-9242).
- 24 Mar., Sat. **FIELD TRIP** to Rowena Plateau. Leave from Lewis & Clark State Park (exit 18 off I-84 heading east) at 9am. Leader : Maxine Wilson (655-1523).
- 31 Mar., Sat. **FIELD TRIP** to Home Valley and Wind Mountain for mosses and lichens. Leave from Gateway Max Park and Ride at 8:30am, or from Home Valley Park, off SR14 at 9:30am. Bring hand lens and notebook. Leaders: John Davis (1-509-427-5871) or Elizabeth Handler (244-5320).
- 7 Apr., Sat. **FIELD TRIP** to Columbia Hills, by a new route east of Lyle. Leave at 8am from Gateway Max Park and Ride or 9am from the Bingen Winery on Highway SR14. Leader: Elizabeth Handler (244-5320).

## Siskiyou

- 8 Mar., Thur. **Meeting.** 7:30pm at Rm. 171, Science Bldg, Southern Oregon State College. Paul Lemon, Adjunct Professor at SOSC, will show slides on geography, evolution, diversity & uses of palms of the world.

## Umpqua Valley

- 15 Mar., Thurs. **MEETING.** 7pm at the BLM Office, 777 Garden Valley Blvd., Roseburg. Nancy Fredricks will speak on research she has conducted on *Calochortus umpquaensis* and *Calochortus coxii*.
- 17 Mar., Sat. **FIELD TRIP.** Leave at 8am from the BLM parking lot, 777 Garden Valley Blvd., Roseburg. Early spring flowers on conglomerate bluffs in the Canyonville fault zone. Info: Jack Hausotter (874-2462).
- 7 Apr., Sat. **FIELD TRIP.** Leave at 8am from the BLM parking lot, 777 Garden Valley Blvd., Roseburg. Spring flowers on the high basalt mesa of Table Rock north of Medford. Contact: Jack Hausotter (874-2462).
- 19 Apr., Thurs. **MEETING.** 7pm at the BLM Office, 777 Garden Valley Blvd., Roseburg. Bob Meinke will speak on the State Endangered Species Program.



## Willamette Valley

If you want to hear about unscheduled mid-week trips to places near or far, call Clint Urey (581-1805).

- 19 Mar., Mon.      **MEETING.** 7pm at First United Methodist Church, corner of SE Church and State Sts., Salem (use the NE entrance on State Street). Larry Tuttle of The Wilderness Society will speak on "The Ecology of Old Growth Forests".
- 17 Mar., Sat.      **FIELD TRIP.** Leave at 9am from Lewis & Clark State Park just off I-84 east of Fairview. Visit Catherine Creek with the Portland Chapter. For carpools from Salem, call Clint Urey (581-1805).
- 24 Mar., Sat.      **FIELD TRIP.** Leave at 8am from South Salem K-Mart. Moss Identification Workshop at Silver Falls State Park. Head outdoors first to gather specimens, then a study session in the Lodge. Bring a sack lunch and a handlens if possible. Leader: Edna Stevenson (743-2249).
- 21 Apr., Sat.      **FIELD TRIP.** Leave at 8:30am from South Salem K-Mart. Visit Baskett Slough and nearby areas. Leader: Vi Sobolik (623-2630--Dallas).

## William Cusick

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

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### BITS AND PIECES

---News and Information From All Over

**EARTH DAY OAK WOODLAND MOUNTAINTOP CAMPOUT AND RETREAT.** This event features wildflower hikes with a botanist/herbalist, shared food in a wood-heated cabin, and camping under the oaks with views of Mt. Hood and the White Salmon River Valley. There is a limit of 8 guests. \$25 before Apr. 11, and \$35 after. Apr. 21-22, 1990, starting 11 am Sat. Call or write Krista Thie for details at 1549 W. Jewett Blvd., White Salmon, Wa. 98672 (509-493-2626).

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**GLIDE WILDFLOWER SHOW.** The 26th annual Glide Wildflower Show is scheduled for April 28th and 29th in the Glide Community Building in Glide, Oregon. The show always provides a beautiful display of the local flora along with a variety of colorful photos. More details will appear in the April *Bulletin*.

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A **NATURALIST** will be available at The Nature Conservancy's Tom McCall Preserve weekends March 17 through May 20, 11am to 4 pm. More information on TNC activities this spring at Tom McCall will be available in next month's *Bulletin*.

#### **DESERT CONFERENCE XII RETURNS TO MALHEUR.**

The annual Desert Conference will be held May 4-6 1990 at the Malheur Field Station. A variety of field trips, expert presentations, panels and workshops will be offered. Trips are planned to possible Wilderness and other special areas, including rare botanical communities and birding hot spots. Issues to be discussed include cyanide leach mining, military withdrawals of public lands, grazing, proposals for protecting threatened wildlands, photography and writing.

Room and board will be at low cost, but preregistration is required. For more information and forms contact:

Desert Conference XII  
POB 732,  
Mountain Home Idaho 83647.

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**BEAUTIFICATION PROJECT.** The Roseburg Jaycees, the NPSO, and the Roseburg Parks Dept. are cooperating on a planting project in a city park and along bikepaths. Some native species are being used, with donations coming from local nurseries. Anyone wishing to take part can call Patty or Dave Turcotte eves at 672-0874. Workers are slated to start out at 9am from the Jaycee Clubhouse in Stewart Park.



## THE PRESIDENT'S COLUMN

### A PERSONAL VISION FOR THE YEAR 2000

*The following is what I imagine the NPSO President's report in the year 2000 might look like.*

As we enter the new milenium, I am drawn to a retrospective of the Society's last decade. It is a positive view and I am anxious to share it with you. Over the decaed many local and global forces have affected the fortunes of NPSO. I will try to record and interpret most of them.

The most important impacts were the effects from changes in global environmental awareness and in macro-economics. The political changes started by Gorbachev in the late '80's led to drastic decreases in defense budgets. In an era of increasing environmental awareness, this led to significant increases in agency resources for rare plants and habitat preservation and rehabilitation. After years of increasing oil imports, it was the three large oil spills in the harbors of San Diego, Seattle, and Boston in '91 and '92 that galvanized public concern. These factors contributed to Robert Redford's surprise victory over Dan Quayle in the 1996 election. Redford's subsequent strong support for conservation initiatives here and abroad has given momentum to the issue worldwide. The riding power of the Green Party in the US and abroad has also influenced national politics. The heartbreak of watching the Eastern European countries deal with decades of environmental neglect has taught the World a lesson.

In the mid-'90's it became apparent that global warming was here to stay and had arrived sooner than expected. This was shown by the loss of the Oregon Pumice Grapefern (*Botrychium pumicola*), a pleistocene paleo-endemic that grew only at relict sites in the Cascades. Oregon's timber industry reeled, as timber supplies ran out. Biodiversity in the forest had not been maintained. Entire monoculture plantations became bonsai gardens as Nature was unable to select more suitable genetic stock to survive the rapidly changing conditions. As the timber industry waned in importance, Oregon

realized that the conservationism of the 70's and 80's wasn't responsible for the industry's decline. Inattention to sustained-yield harvesting and biologically appropriate timber practices were perceived as the true culprits.

Joining the Environmental Federation of Oregon provided the funds for the NPSO to hire our first part-time director. We were fortunate that Julie Kierstead returned from California in '92 to take the position. Initial grants for education and science programs led to foundation and corporate support. Within 2 years Julie was full time and we were self-supporting. Membership rose to our present level of 3500. The NPSO has received regional recognition for its education programs. These concentrate on showing high school science students the importance of plant ecology and conservation. Our program of field trips and other programs has continued and broadened this educational mission. We joined in initiating the National Council of Native Plant Societies and NPSO past-President Rhoda Love was its first chair.

In retrospect, our dealings with the mining industry were some of our most effective. With gold at \$600 an ounce, Oregon now has 17 mines utilizing cyanide leach technology, producing a total of \$230 million of gold a year. NPSO worked with the companies to site mines and mitigate impacts on the rare plants found at most of the mine sites. NPSO held the second West Coast Rare Plant Conference in Eugene in 1993, giving us national prominence. It led to our best-selling publication: "*Preserving Rarity and Biodiversity in Northwestern America*". Our expanded poster, card and other sales items not only gave us greater visibility, they added to our treasury and allowed expansion of our R&E preservation efforts. The strengthening of the The Endangered Species Act in 1997 gave impetus to our attempts to preserve elements of Oregon's biodiversity. We cooperated with the Nature Conservancy in several preserves statewide.



Grazing pressure on BLM lands was substantially reduced. Streams in Eastern Oregon that had not run in 100 years became quality trout fisheries. Steens Mountain National Park highlighted the ice-age relict plants that grow there. Our monthly scientific journal "Kalmiopsis" has been recognized nationally for its high quality research and review articles. Editor Frank Lang has received two national awards for his work.

The past decade has been good for the Society. I can only hope and expect that by 2010 we will build on the efforts reported here.

*Cornus canadensis*  
drawing by Jeanne R. Janish in  
*Flora of the Pacific Northwest*,  
by Hitchcock and Cronquist  
University of Washington Press



## ON THE STUDY OF BOTANICAL HISTORY

In a recently published account of the history of botanical exploration of the old Oregon Territory I have noted some of the gaps and gulfs in our knowledge of the early field collectors (NPSO *Bulletin* V. 22 no. 5, May '89). Also I find conflicting views of the extent of travel by some field naturalists into the Pacific states. Which already published itineraries of plant explorers within the Pacific states are uncertain or open to question? Perhaps the best that the student/ historian can do is read the references, keep an inquiring mind and avoid publication of unsupported assumptions. Below are some convincing reference sources used in my studies about naturalists in the Pacific states, with some summaries of their contents and values to the critical reader.

1. Hunter Dupree, *Asa Gray, 1810-1888*. Harvard Univ. Press, 1959.
2. Joseph Ewan, *Rocky Mountain Naturalists*. Denver Univ. Press, 1950.  
Many brief biographies of naturalists of the Rockies and Pacific states from the earliest to some still alive at publication. A major reference useful to distinguish California botanists who didn't reach Oregon Terr.
3. Janet E. Graustein, *Thomas Nuttall*. Harvard Univ. Press, 1967.  
A major collector in Ore, Calif. & Hawaii.

4. Jane L. Gray, ed., *Letters of Asa Gray*. 2 vol., Houghton-Mifflin Co., 1973.  
Reprint of the 1894 exhaustive biography.
5. T. Howell, *Flora of Northwest America*. vol. 1, self-published, Portland, 1901.
6. H.B. Humphrey, *Makers of North American Botany*. Ronald Press, 1961.
7. Alice L. Kibbe, Phd., ed., *Afield with Plant Lovers and Collectors*. Self-published, Carthage, Ill. 1953.  
The letters of an Illinois printer who specialized in herbarium labels. Covers such western travelers as A. Gray, E.L. Greene, C.C. Parry and C.G. Pringle.
8. Susan McKelvey, *Botanical Exploration of the Trans-Mississippi West, 1790-1850*. Harvard Univ. Press, 1955.  
Maps of exploration by decades with journal quotes. Valuable indices.
9. Bassett Maguire, *Highlights of Botanical Exploration in the New World*. Article 13 in *Fifty Years of Botany*, McGraw-Hill, 1958.
10. A. D. Rodgers, *American Botany, 1873-1892*. Princeton Univ. Press, 1944.
11. *Botanical Explorations in Washington, Oregon, and California*. In *Huntia*, 3:5-62, 1969. A valuable list of references.

Edward P. Thatcher  
Professor Emeritus, UO



## VOTE ON NAMING THE NEW NPSO JOURNAL

The NPSO State Board decided at its Jan. meeting to refer naming the upcoming 'Occasional Journal' to a vote by the membership. The new journal was envisioned last year by Pres. Stu Garrett, and the State Board approved moving forward with it. Last December's *Bulletin* contained an announcement about the journal and offered a prize of Arno's *North-west Trees* for the winning name suggestion. We have received many suggestions and are putting them before the membership for a vote. Please find your ballot enclosed in this issue, combined with ballots for State Board positions, and send us your votes for both to the same address!

Several general criteria for name selection have been suggested. Many wish to use the botanical name of some native species. Others wish to honor early botanists. Often these both can be done with one name. Others feel that some reference to our geographical area should be important. Some wish to use the name of an Oregon endemic species, which grows only within the state. Others feel the need to find some species more indicative of the entire state. Narrow endemics seem to grow only in a small portion of the state, while types that are widespread in the state also grow throughout the west. Others wish to honor a plant's beauty or other values for man. The *sound* of the name was often named an important feature. Following is an alphabetical listing of the 14 suggestions we received, with some of the reasoning given for selecting that name.

**CALYPSO.** This dainty and beautiful orchid is a favorite flower for many. It is associated with older conifer forests at many elevations.

**CAMASSIA.** This showy bulb can cover large areas with blue and was a major Indian food.

**CASCADIA.** This name has been used previously primarily in geology for the entire Cascade Mountain region, including the area from the Coast into Idaho and from Northern California into BC. It is certainly an attractive name.

**CORNUS.** This showy tree is prized for its large blossoms. It colors well in the fall, and has an attractive form. The fruit are used by birds and the bark contains a quinine-like drug.

**CORYLUS.** Oregon boasts one native species in this genus and is America's main source of the nuts produced by its Eurasian cousin.

**CUSICKIA.** This honors an important early collector, and several plants named after him. This is no longer a valid genus name, sharing this dubious honor with *Osmaronia*.

**FRITILLARIA.** Oregon has several species in this genus, all of them attractive and suitable for use in artwork. The name has a nice ring.

**HOWELLIA.** This honors one of Oregon's early botanists. More than one Federal candidate species bears this name.

**KALMIOPSIS.** This monotypic shrub grows only in Oregon, and is a candidate for Federal listing. It is an attractive plant that will lend itself to use in logos or artwork. It is one of the few native plants named after a woman.

**MAHONIA.** This is our state flower and a popular garden shrub. It is used as one of our logos, appearing on the front page of each *Bulletin*.

**NUTALL'S.** This honors another early botanist, and the many plants that bear his name.

**OREGANA.** This name uses the latinized form of our state's name. The region covered is clear.

**OSMARONIA.** This means 'fragrant' in Greek. The osoberry grows only in the Northwest and has no close relatives elsewhere. The name *Osmaronia* is now discarded, and naming our journal so would rescue it from obscurity.

**PISTIL AND STAMEN.** Using a little sex appeal, this name emphasizes the floral subjects of the journal.



## 1990 EMERALD PLANT DBASE

Recently, some NPSOers got a mysterious flier in the mail from an outfit calling itself the Emerald Plant dBase. Here's the story: it all began last Nov. with a few plant lists collected for personal use from long-term NPSO members. The idea was to simplify life by reducing things to just those species really found in my area. Soon, I found comparing nearby sites wasn't that easy with so many alphabetizing schemes in use. Retyping and proofreading plant lists just wasn't my scene. So, out of laziness, I decided to enter each species onto a computer database, with genus, family, page in Hitchcock, native or alien, annual or perennial, wetland indicator status, protected status, as well as the various preserves on which it was reported and who had botanized there and when. No more flipping through books and bulging file folders of lists for me! Now I could count the native species, add new plants, or realphabetize instantly. Where should I go in Lane County to see a *Ceanothus cuneatus* community? (Mt. Pisgah.) How many native annual grasses are found in Willamette Valley wet prairies? (Ans: 5.) Does a proposed BLM RNA in the Coburg Hills have plants not represented in the federal system? (Yes: 12.) What site has the lowest percentage of introduced species? (Gold Lake Bog RNA: 8%). Where is the northernmost reported preserve occurrence of *Frasera umpquaensis*? (Upper Elk Meadows.)

This modest local endeavor blossomed into a much larger project. (It is now 1041 species at 60-odd sites in six counties!) Of course, botanists in the field had done the real work--a single list could represent 8 or 9 seasons of careful observation by a half dozen experts. My focus has been to create a careful prototype, get it in circulation, expand coverage, and send around a short correction sheet later. (I don't agonize endlessly over the problematic taxa like a true systematic botanist--let them refine their own copy of the disk!) Most sites will have revised plant lists next fall anyway.

The project seems to have met a genuine need. Letters come in from contract botanists, field botany teachers, wetland property owners,

seed bankers, restorationists, consultants, summer interns, county planners, federal and private site managers, serious amateur botanists, people with conservation questions and even out-of-state herbaria staffers. Since there is a lot of 'cross-over' membership, I also got requests from wildlife groups to match data base structures to their project needs!

I decided to spin-off the plant disk as a (less-than) non-profit entity--the Emerald dBase--separate from NPSO and the other groups. I am still interested in coordinating with other NPSO members who would like a flying start in extending the project to their area--why not have state-wide coverage! Data entry is very rapid and scarcely any typing is involved at this point. The project complements the Natural Heritage Data Base, which tracks mainly threatened plants and communities.

My long-term goal is to turn the whole thing over to an appropriate party and wash my hands of it, except as a user! The 1990 Repo is available spiral-bound to NPSO members in good standing at 4¢ a page (\$7.60+ \$1.30 postage, C/O EmdB, POB 3429 Eugene, Or 97403)--it's worth a look if you've ever envisioned starting a similar project. The disk is also available under terms to responsible parties in Mac or ASCII format. (Would you like a botanical spell-checker for your computer?)

Tom Prince  
Emerald Chapter

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### *Salix artica*

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





## NPSO TAKES PART IN NEWS CONFERENCE

The following press release was written by Dr. Rhoda M. Love for a Jan. 8 1990 joint news conference with Audubon Society and the Oregon Natural Resources Defense Council. Research done by Jim Stickler and supported by the ONRC showed that BLM budgeting and management practices have lead to inadequate surveying of rare and endangered species in proposed timber sales. Over 5 years 44% of BLM sales in Western Oregon had no botanical surveys at all, and some of the surveys done were not adequate or simply ignored when planning was done. Dr. Love was instrumental in toning down 'BLM bashing' by other participants and she emphasized positive suggestions to rectify the situation here in Oregon--which, unfortunately, is the best in the nation. She states that it is very important to encourage the BLM to adopt a bureau-wide sensitive plant list.

The statement was read by Dr. Love in Eugene, and in Portland by Bryan Boyce. Press coverage resulted in a broadcast over *National Public Radio* and an article in both the *Oregonian* and the *Eugene Register-Guard*. Eugene affiliates of the 3 major TV networks broadcast reports.

JANUARY 8, 1990  
DR. RHODA M. LOVE  
NATIVE PLANT SOCIETY OF OREGON

For the many rare plants growing on Bureau of Land Management land in Oregon I have good news and bad news. First the good news: the BLM is the only Federal Agency in our state with a qualified professional botanist in every district. This was not always the case. In the early 1980's, when I became president of the NPSO, we were worried that a large number of Oregon's rarest and most vulnerable plants grew in BLM districts with no botanist to watch over them. How-ever the Bureau responded to letters from our group, and a botanist was hired for each district.

Unfortunately, however, as Mr. Stickler's research shows, the bad news for Oregon rare plants is that the BLM has not taken very obvious follow-up actions necessary to save these

plants from extinction. In my opinion, just 3 rather simple policies, if put into effect by the BLM, would bring the agency into compliance with federal law, and would greatly improve the chances of saving Oregon's rare plants.

The steps are:

- (1) Additional, seasonal, college-trained botanists (not so-called "parabotanists") must be hired so that all rare plants can be found, reported and properly surveyed,
- (2) Botanists must visit rare plant sites at proper flowering and fruiting times,
- (3) Botanists' findings and recommendations concerning rare plants must be taken into account when policy is formulated.

It has been amply proven that the people of the United States want protection for endangered species. In Oregon, an Endangered Species Bill passed both the House and the senate unanimously. Legislators involved with this bill will attest to the large volume of mail and the hours of testimony they received in its favor. In the past the BLM has shown sensitivity to citizen concern for rare plant protection. The NPSO calls upon the Bureau to support their botanists and see that Oregon's rare plants receive the protection to which they are entitled by law.

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### PINS—PINS—PINS

A new batch of NPSO trillium logo pins are available. These are sturdily made of enameled metal and feature an open, cutout design. Members report that the pins are so attractive that hikers met along trails inquire about where to purchase them. Others state that their pins have survived trips through the laundry! The pins make good gifts too. Part of the price goes towards supporting all our NPSO activities.

The pins will be available at chapter meetings and other events soon for \$2.50. Chapters wishing to raise funds can order them in packages of 5 from Esther Kennedy, 6124 NE 28th Ave., Portland, Or. 97211 (287-3091).



## THE JEAN DAVIS AWARD

Each year the NPSO awards a worthy student majoring in plant systematics or ecology at an Oregon college or university a tuition scholarship for \$1,000. This award is backed by a fund, and as many awards are given as can be funded by interest generated by it. Donations to the fund are tax deductible and are accepted year around. This is a good way to encourage future experts in botanical science.

All communications about this fund should be sent to Mary Falconer, Scholarship Committee Chair 1920 Engel Court NW  
Salem, OR., 97304

### *RULES FOR SCHOLARSHIP AWARDS*

- 1) Scholarships are available to students in Oregon colleges and universities, whose major field of study is plant systematics or ecology.
- 2) Scholarships are in the amount of \$1,000 to worthy full-time students who will complete at least their second year of satisfactory college work by July 1st of the year of application. Graduate students need not be full-time.

- 3) Awards are handled in the following way:
  - a) A certificate is given the recipient.
  - b) A check in the amount of the award is sent to the school of choice, to be applied towards tuition within the following academic year.
- 4) If an award recipient fails to enroll, change his or her major, or leaves school before completing the period for which the award was granted, the full amount or unused portion of the award shall be returned to the Fund.

Apply by submitting the following:

- a) In your own writing, a statement of academic and career intent.
- b) Two letters of reference from persons able to assess your ability to successfully complete study in the field of systematics or ecology.

All applications must be received by the Scholarship Committee Chair no later than April 1st. The award will be made by May 1st.

Scholarships are not granted to Scholarship Committee members or their relatives.



*Cornus stolonifera* and *Cornus nuttallii*  
Drawings by Jeanne R. Janish in  
*Flora of the Pacific Northwest*  
By Hitchcock and Cronquist  
University of Washington Press





**"OF PLANTS AND ROCKS: GEBOTANY IN OREGON"**  
**THE NATIVE PLANT SOCIETY OF OREGON**  
**HIGH DESERT CHAPTER (BEND)**  
**1990 FIELDTRIPS**

During 1990 the High Desert Chapter of NPSO celebrates its tenth anniversary by sponsoring a series of excursions that will highlight the influence of local and regional geologic processes on our native vegetation. Several trips will feature not only botanical experts but also well qualified geologists. Please join us and take this opportunity to explore central Oregon's rich natural history.

The Native Plant Society of Oregon is a non-profit group interested in the enjoyment, study, and conservation of Oregon's native vegetation. Founded in 1961, we have over 900 members in 11 chapters statewide. Membership is open to all. The High Desert Chapter invites non-members to join us on our hikes. Amateurs and experts are equally welcome!

Most trips will leave from behind the north McDonalds Restaurant, 4048 NE 3rd St., Bend at 8:30 am sharp. We normally will return to Bend by 5 pm. Please be sure your gas tank is filled and arrive a few minutes early to car-pool. Riders are encouraged to reimburse drivers. 20 cents per mile per car is a suggestion. Weather may be severe and roads and trails rough. Bring water, a sack lunch, sturdy boots, daypack, and consider layered clothing, sunscreen, handlens, camera, binoculars, ect. No picking or collecting plants is allowed. No smoking due to fire danger. Please leave your pets home. Please privately inform your trip leader of important medical conditions. You participate at your own risk. Please call trip leaders for more information.

April 21 Sat.            THE ISLAND  
This spectacular grassland is reached by a steep, rough trail less than one mile long. The trail can be challenging for inexperienced or unprepared hikers. Located in the Cove Palisades State Park, this spot is essentially ungrazed and features pristine, meadow-steppe plant communities. The area is managed by the BLM and USFS as a Research Natural Area.

Rattlesnakes have been seen on the trail. Geologist Larry Chitwood will accompany leader Stu Garrett (389-6981 eves; 382-2811 days).

May 12 Sat.            PAINTED HILLS/SUTTON MOUNTAIN  
An outing to a botanically and geologically fascinating area north of Mitchell. Easy hiking and rare plants highlight this trip to the Painted Hills Unit of the John Day Fossil Beds National Monument. Round trip driving distance is 150 miles. Geologist Ellen Morris Bishop accompanys trip leader Stu Garrett (389-6981 eves or 382-2811 days).

May 19-21 Sat.-Mon.            LESLIE GULCH  
Unique geology has given rise to spectacular scenery as well as to specific habitats for seven rare plant species. Located on the Owyhee River in Eastern Oregon near the Idaho border, this 3 day trip will require overnite camping in primitive conditions. Easy to moderate hiking after a long drive (probably 7 hours from Bend). This area has national park quality scenery. Please call trip leader for travel details if you plan to come. Geobotanist Jean Findley accompanys trip leader Stu Garrett (389-6981 eves; 382-2811 days).

Sat. July 14            IRON MOUNTAIN  
A classic wildflower hike, located just north of the Santiam Highway. A moderate 2 mile hike each way on a good trail with 1500 ft. elevation gain. Call leader to register. Trip leader: Marge Ettinger (382-2255).

Sat. August 11            BROKEN TOP VOLCANO  
Our annual hike to view the spectacular display of alpine wildflowers and glacial and volcanic geology on Broken Top Volcano. A 5 mile round trip moderate to strenuous hike with a 1500 ft. elevation gain, mostly in the Three Sisters Wilderness. Number of hikers limited due to wilderness area regulations, call trip leader to register. Geologist Bruce Nolf accompanys trip leader Stu Garrett (389-6981 eves or 382-2811 days).



**STATE OFFICERS**  
 DIRECTORS..... Jerry Igo, Nancy Fredricks, Paula Brooks, Barbara Mumblo, Marjorie Willis  
 PRESIDENT ..... Stu Garrett. .... Bend Memorial Clinic, Bend 97701; 382-2811  
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