



Bulletin

of the

Native Plant Society of Oregon

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

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NOVEMBER 2005

Summer Intern Report

The Search for the Clover: *Trifolium owyheense* in Leslie Gulch ACEC

by Karen Wells

The following is the last in a series of articles in which NPSO/Institute for Applied Ecology (IAE) interns discuss their activities during the 2004 field season. Interns participated in rare plant monitoring, restoration, floristic surveys, and other research projects conducted by IAE staff throughout Oregon. For more information on internship opportunities, please contact IAE at kayet@peak.org, 541-753-3099 or visit www.appliedeco.org. Thanks again to NPSO for contributing to botanical education and work experience. Watch upcoming *Bulletins* for intern articles from 2005!

~Tom Kaye, Institute for Applied Ecology, Corvallis, Oregon

In May 2004, we embarked on a botanical treasure hunt through Leslie Gulch, a spectacular sculpted canyon located in the Owyhee River Canyon in southeastern Oregon. We were in search of a rare plant, the Owyhee clover (*Trifolium owyheense*). This adventure took us on foot, from the bottom of the canyons to the tops of peaks where we braved rain, hail and steep talus slopes. Armed with only a topographical map of 11 previously identified populations, we successfully found a total of 15 populations. Along the way we marveled at the spectacular views, beautiful wildflowers, and spoke to each other in our best Irish accents while frolicking through the clover.

Leslie Gulch

Leslie Gulch began forming 15 million years ago when the Mahogany Mountain caldera spewed a molten froth containing hot gases, ash and large chunky rocks. This volcanic material covered thousands of square miles and was 2000 feet thick in some areas. As the rocks cooled and lithified, gases within the rocks left behind spaces.

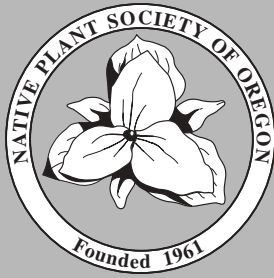
Millions of years of weathering, uplift and faulting of the space-filled rocks formed the towering cliffs, outcrops and spires. These eerie sculptures seem to take on human form, especially at dusk. The colorful rock is multi-layered and full of colors including yellow, green, blue, black and brown. These volcanic events provided an interesting specialized substrate that supports a high density of ash-dependent rare plant species.

In 1983, Leslie Gulch was designated an Area of Critical and Environmental concern (ACEC) in order to protect its valuable scenery, California bighorn sheep habitat and special status plant species. The ACEC, which covers 11,653 acres, is home to many species of animals and plants. In the uplands there are Rocky Mountain elk, California bighorn sheep and mountain lions. Chuckar partridge and California quail, which occupy lowlands, are abundantly seen and heard. Coyote, bobcats, reptiles and many birds live in the canyons. Raptors, northern flickers, white-throated swifts, and bats utilize

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

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To join send a message to majordomo@tardigrade.net, with the following in the body of the message: subscribe nps

General Business Address

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Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

Membership Inquiries Only

Clayton Gautier

3927 Shasta View St.

Eugene, OR 97405-4442

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Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Request For Fellows Award Nominations

by Fellows Committee: Rhoda Love, Shane Latimer, Kelli Van Norman, Veva Stansell

The Fellows Committee is ready to receive nomination for the year 2006. Nominations may be made by Chapters, individual members or the State Board of Directors under the following guidelines:

Nominees will be members who have given outstanding service to the Native Plant Society of Oregon (NPSO). They may have been instrumental in establishing the State Organization or a Chapter, or produced distinguished editorial contributions, or served as an inspirational teacher of botany. They may have in other ways contributed valuable work relating to native plants and their conservation, or to the goals of NPSO.

The nominating group or person should prepare a formal letter of nomination for consideration by the Fellows Committee. The letter should include

detailed biographical and background information about the nominee. A photo of the nominee suitable for an article in *Kalmiopsis* should be provided by the nominator.

After review of the nominating letter, the Committee will make a recommendation to the State Board. Acceptance as a Fellow will be by vote of the Board of Directors at a State Board meeting. Fellows will receive a framed plaque and a life membership in NPSO, and will be featured in an article in *Kalmiopsis*.

The NPSO Fellows Committee asks that letters of nomination for the year 2006 be sent by December 1, 2005, to Veva Stansell, PO Box 6077, Pistol River, OR 97444-1575. Contact Veva at vstansell@harborside.com or 541-247-7153 for more information.



TANYA HARVEY

One of the joys of late summer botanizing is the sight of Fringed grass-of-Parnassus by a creek or in a wet meadow. There are two species in Oregon. On the upper left is *Parnassia cirrata* var. *intermedia*, recognized by its wider petals and ball-tipped staminodia. On the bottom right is *Parnassia fimbriata*, which has lobed staminodia. It has larger leaves than the previous species.

Both used to be considered varieties of *P. fimbriata*: var. *hoodiana* and var. *fimbriata* respectively. Recent research has also removed *Parnassia* from the family Saxifragaceae and placed it in its own family, Parnassiaceae. It's tough keeping up with taxonomy!

State

January 28, Saturday, 10 am

Board Meeting: The Corvallis chapter will host the winter board meeting. The location and directions will be announced in the December issue of the *Bulletin*.

Blue Mountain

For information on the Blue Mountain Chapter call Jerry Baker at 541-566-2244.

Cheahmill

November 17, Thursday, 7 pm

Meeting: KOA (Key on Agarics). Jake Hurlburt, retired science teacher and avid mushroom and insect photographer, will give a powerpoint presentation on identifying mushrooms. He will be using a mushroom key that he has developed while teaching edible plant and mushroom courses through Chemeketa Community College. Jake's program is built around a workbook that will be available for purchase at the meeting. Attendees are encouraged to bring mushrooms for identification. Carnegie Room, McMinnville Library, 225 NW Adams St. Need more info? Susan Williams 503-538-1865 or helgesusan@comcast.net. Chapter website: www.oregon-nativeplants.com.

Corvallis

October 29, Saturday, 8 am

Field Trip: Mushrooming with Dan Luoma. Take advantage of this timely trip the day before the Mt. Pisgah Mushroom Festival to learn and collect fungi of the Oregon Cascades. Corvallis area folks meet at the OSU parking lot SW of the Beanery, 26th and Monroe, Corvallis, at 8 am. This will be an all day event. For more information contact Dan Luoma at 541-752-8860.

November 14, Monday, 7:30 pm

Meeting: Hot & Thorny—a glimpse of South Texas Botany. Ann Willyard, an Oregon State University PhD student and longtime research assistant on the Oregon Flora Project, will be presenting her unique photos from a recent trip to the subtropics of Texas. Come learn about the good side of Texas! Avery House, Avery Park, Corvallis. For more information please contact John Syring at 541-752-0414.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **Bring water and lunch.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

November 19, Saturday, 10 am

Workshop: Plant Propagation. Tired of the same old tulips, petunias and daffodils? Oregon's native plants make wonderful garden specimens. This workshop will teach you how to grow these beauties by seed and from cuttings. Just say "no" to boring K-mart gardens! Bring some small pots or seedling trays. We'll provide seed, soil, and crumpets. Workshops will be held in 1070 Cordley Hall, OSU campus, enter through the northwest door by the herbarium. Please register in advance by contacting John Syring at 541-752-0414.

Emerald

Call for Vases

Do you have flower vases that you no longer use, or would you be willing to scout yard sales and second hand stores and purchase vases? Bring your vases to our public programs and we will collect and store them for use at the annual Mt. Pisgah Arboretum Wildflower Festival. You can also bring them to the Festival in May 2006.

November, 2005

By-Laws Vote. All Emerald Chapter members: please vote on new chapter by-laws. Attorney David Atkin helped draft the up-to-date document which must be ratified by mail-in vote. You can read the new laws at our website: www.emeraldnpso.org. They will be posted there for 2 months beginning in mid-September. Ballots will be mailed to all chapter members in November.

November 28, Monday, 7:30 pm

Meeting: Oregon's Changing Vegetation and Climate over the Past 45 Million Years. Greg Retallack is a professor of geology at the University of Oregon. Greg's presentation will cover research in paleobotany and ancient soils including the Painted Hills of Eastern Oregon. Room 115, Science Building, Lane Community College,

4000 30th Avenue East, Eugene. For more information call Dave Predeek at 541-345-5531.

December 12, Monday, 7:30 pm
Meeting: Annual Members Slide Show/Holiday Gathering. Bring 5-10 slides and a snack to share if you wish. Come admire others' slides if you do not have your own. See you there! Room 115, Science Building, Lane Community College, 4000 30th Ave. East, Eugene. For more information, call Dave Predeek at 541-345-5531.

High Desert

For information on the High Desert Chapter contact Berta Youtie at 541-447-8166.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com.

Mid-Columbia

November 2, Wednesday 7:30 pm
Meeting: Columbia River Gorge Management Plan. From time to time all public land managers allow comments on proposed management plans. Currently, the Columbia River Gorge Scenic Area – USDA Forest Service, seeks input on the Rowena Plan. The Rowena Plan project area is defined as the scenic area from Mosier east to The Dalles. The plan addresses the following major points: native vegetation management, wildland fire regimes, noxious weed control, and recreational opportunities. Mike Igo will lead a comprehensive discussion of the draft management plan. Then as a chapter we may prepare comments consistent with our mission to conserve native plant habitats. The *Dalles Chronicle* Meeting Room, 317 E. 3rd St., The Dalles.

North Coast

Wanted, new members for our group, located in Tillamook County. Trips subject to suggestions. Please phone Janet Stahl 503-842-8708.

Portland

November 10, Thursday, 7 pm
Meeting: Changes to the Flora of Portland 1875-2005. It has been a year since John Christy and Angie Kimpo introduced this topic to the Portland Chapter. Come and hear what has been discovered in the interim about the current abundance or rarity of our favorite plants in the Portland Metro area. Room #202, First United Methodist Church, 1938 SW Jefferson St., Portland. Located just uphill from the Goose Hollow MAX stop.

Siskiyou

November 17, Thursday, 7:30 pm
Presentation: Mushrooms and Lichens of the Pacific Northwest. Please join us as David Lebo, botanist for the Mt. Hood National Forest, shares his knowledge about mushrooms and lichens of the Pacific Northwest. David conducted surveys for rare species of fungi, lichens, and bryophytes for the Survey and Manage Program throughout the Northwest Forest Plan area and served on the lichen taxa team for Region 6 of the U.S. Forest Service. He will give a slideshow presentation on the many diverse species of mushrooms and lichens found throughout the Pacific Northwest. Room 171 of the SOU Science Building, Ashland. For more information, contact Celeste Coulter, 503-780-6360.

Umpqua Valley

November 10, Thursday, 7 pm
Meeting: Fantastic Fungi Fuel Forest Growth. Dan Luoma, Assistant Professor, Senior Research in the Department of Forest Science at OSU, will talk about the relationship between fungi and plants. Mercy Community Education Center, Roseburg. For more information contact Sam Friedman at 541-673-0589.

November, TBA

Field Trips: Bryophyte/Fungi Walk. For more information contact Sam Friedman at 541-673-0589.

Willamette Valley

November 17, Thursday, 7 pm
Program: O, Pioneers! Our Early Northwest Plant Collectors. Eugene Botanist Rhoda Love will introduce a special group of pioneers such as Almata Barrett, William Cusick, Lilla Leach and Wilhelm Suksdorf. During the 1800s and early 1900s, pioneer botanists searched the Northwest for new plant species identifying and collecting thousands of specimens. An inspiring and lively speaker, Dr. Love taught botany at Lane Community college for more than 30 years. In 1980, she received a doctorate from the University of Oregon. Straub Environmental Learning Center, 1320 A Street NE, Salem (right next to Olinger Pool, near North Salem High School). The program is free and open to the public. For more information, please call 503-399-8615.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

Two Events To Mark Release of *Ever Blooming: The Art of Bonnie Hall*

A reception to mark the publication of *Ever Blooming: The Art of Bonnie Hall*, a retrospective of the artwork of longtime NPSO Corvallis chapter member Bonnie Hall, will take place on Thursday, November 10 from 6:30 to 9 pm at Pegasus Gallery, 341 SW 2nd Street in Corvallis. The event is free and open to the public.

Editor Jim Hall will also sign copies of *Ever Blooming* at the Audubon Society of Portland's Wild Arts Festival on Saturday, November 26 from noon to 5 pm at the Double-Tree Lloyd Center in Portland.

After a long and accomplished career in scientific illustration, Bonnie Hall turned with wonder and determination to the art of screenprinting. Resolved to "share the privileged close scrutiny of nature" that she had enjoyed, Hall created her first screenprint in 1992 while undergoing chemotherapy for breast cancer. Over the next twelve years, she created screenprints of Pacific Northwest wildflowers, ferns, and butterflies—natural history portraits in simple, sharp-edged planes of brilliant color.

Inspired by old botanical prints and motivated by a desire to draw attention to "the overlooked, undervalued, or threatened wild things native to our Pacific Northwest landscape," Hall produced scientifically accurate prints that revealed the personality, life stages, and the very essence of her subjects—what a fellow artist aptly called the "gesture" of each plant.

Ever Blooming collects the thirty-three large serigraphs and five smaller ferns that Hall created in the last years of her life, along with the artist's own text describing each plant and butterfly. Her narratives are rich in detail and informed by thorough study into plant distribution, life histories, use by Native Americans, taxonomic discoveries, and conservation issues. Taken as a whole, the work is a sparkling confluence of science and art.

For botanists, wildflower enthusiasts, gardeners, and artists, as well as anyone who loves the Pacific Northwest wilderness, *Ever Blooming* offers a singular glimpse of the natural world as seen through the eyes of a gifted and inspired artist.



A native Oregonian, Bonnie Hall (1931-2004) was a graduate of the University of Oregon and the University of California, Berkeley. She began her career as a scientific illustrator at the University of Michigan Museum, later joining the Department of Entomology at Oregon State University, where she worked for thirty years. She and Jim Hall, now Professor Emeritus of Fisheries at Oregon State University, were married for forty-eight years.

"Bonnie Hall and her exquisite art created one of the loveliest gardens ever grown of our region's floral treasures. From violets to shooting stars, fritillarias to ferns, and a bursting bouquet of irises, Bonnie captured the color, form, and personality of Northwest flowers with the simplicity of Henry Evans and the exuberance of a Dutch Master's still life. As a beautiful bonus, splendid portraits of five special Northwest butterflies linger among the wildflowers they love. Bonnie Hall's wildflowers are her great gift to us all—long may they bloom!"

~ Robert Michael Pyle, author of *Butterflies of Cascadia* and *Chasing Monarchs*

Ever Blooming: The Art of Bonnie Hall
Bonnie Hall

Edited by James D. Hall

Foreword by Robert Michael Pyle

104 pages. ISBN 0-87071-116-4.

Hardcover, \$25.00

<http://oregonstate.edu/dept/press/e-f/EverBlooming.html>

Available in bookstores or by calling 1-800-426-3797.

New Pacific Northwest Plant Reference Book

Plants of Western Oregon, Washington & British Columbia, by Eugene N. Kozloff. 2005. 608 page, 712 color photos, 354 b/w illustrations. ISBN: 0-88192-724-4 Timber Press, \$65.00, hardcover.

Just out, this new book is the definitive guide to the rich and varied plant life of the region, from the ocean shore to the crest of the Cascades, from British Columbia south through the Klamath Mountains of southwestern Oregon and the Siskiyou in northwestern California. Its botanical coverage is complete, including plants native to the region as well as those that have been introduced and become naturalized. More than 2500 species are fully described, with user-friendly keys and more than 700 color photographs and 350 line drawings to facilitate successful identification. This is a great resource for botanists, native plant enthusiasts, ecologists, conservationists, and amateur naturalists who desire a comprehensive, up-to-date, and well-illustrated book for the identification of plants of the Pacific Northwest.

Eugene N. Kozloff, professor at the University of Washington, does his research at Friday Harbor Laboratories. An authority on the natural history of the Pacific Northwest, his previous books include *Seashore Life of the Northern Pacific Coast*, *Plants and Animals of the Pacific Northwest*, and *Plants of the San Francisco Bay Region*, among others.

OTHER EVENTS

Siskiyou Field Institute Events

Don't miss the rest of Siskiyou Field Institute's (SFI's) field season! SFI will be holding courses into February this year. For more information or to sign up for a class, call 541-592-377 or go online at www.thesfi.org.

Fall Fruiterers I & II: Mycology in SW Oregon November 11 & 12 and 13 & 14 Ashland, OR

Join fungi experts Eric McEwen and Ron Hamill in an exploration of the diverse species of Siskiyou fungi. Learn how to identify common mushrooms, including some edibles. The first two days will be geared toward beginners and the second for those who are more experienced. \$90 per session.

Wetland Prairie Restoration Presentation

Presentation of Preliminary Results Testing the Effectiveness of Various Site Preparation Techniques for Wetland Prairie Restoration

**November 15, Tuesday, 9 – 11 am
Eugene Public Library, 100 W. 10th Avenue,
Bascom Meeting Room (first floor), Eugene**

The presentation will include the following elements:

- Summary of experimental design and implementation
- Preliminary plant community results from the experimental plots
- Plant and soil results from the retroactive study
- AM mycorrhizae infection rates for six wetland grass species
- Seed bank study in the experimental plots
- Preliminary community competition results in experimental plots

Following the presentation, an optional visit to the test plots on Cantrell Road will be offered, leaving from the library at 11 am. Boots are recommended. For more information contact Jeff Krueger, Senior Landscape Architect, Lane Council of Governments, at 541-682-4122 or jkrueger@lcog.org.

Oregon Natural Resources Council (ONRC) Hike

Kentucky Falls November 12, Saturday, 10 am

Located in the Oregon Coast along the scenic North Fork Smith River, the Kentucky falls trail and the falls themselves never disappoint. On the way, we'll stop and discuss forest management on BLM lands in the Coast Range and learn about what you can do to effect change in their future planning. This is a moderately strenuous hike which includes two miles downhill and two miles back up. Meet at 10 am at the Park and Ride on Walnut and Franklin in Eugene, across from the PC Market. Be prepared for all weather and bring lunch and water. RSVP Chandra at 541-344-0675.

North Mountain Park Nature Center Events

620 N Mountain Ave, Ashland, 541-488-6606, www.ashland.or.us/nmpnews

Restoration Work Party November 5, Saturday, 1 – 4 pm

The N MT Park Nature Center has partnered with the Willow Wind Community Learning Center (WWCLC), Lomakatsi and the Klamath Bird Observatory for a 'Restoration Work Party'. This salmon restoration project will take place on Bear Creek near the WWCLC. Individuals, families, service organizations and clubs are needed. Tools and snacks will be provided. Meet at the WWCLC, 1497 E. Main St, Ashland. To register call the Nature Center at 541-488-6606 or visit <http://ashlandparks.recware.com>. Groups of 5 or more, please call the Nature Center to sign up.

Mount Pisgah Arboretum Events

34901 Frank Parrish Rd, (off of Seavey Loop Rd.), Eugene. For more information or to register call 541-747-1504.

Mushrooming on the Mountain November 5 & 6, Saturday & Sunday, 10 am - 4pm

This intensive class for beginning 'shroomers offers instruction on identification, picking, cooking, ecology, folklore and more! Maggie Rogers of the Oregon Mycological Society will lead the class with slideshows, interactive demonstrations, discussion, and field identification. Fee: \$60/50 members. Registration required.

Mushroom Walks November 12, Saturday, 10 am – Noon

With Bruce Newhouse & Peg Boulay

November 13, Sunday, 12 – 2 pm

With Chris Melotti & Molly Widmer

Take a walk through the Arboretum's forested trails with experienced mycologists from the Cascade Mycological Society. Discuss identification, habitat, characteristics, natural history and the role of fungi within an ecosystem. Meet at the Visitor Center, rain or shine. Donation: \$3.

Audubon Society of Portland Events

Pollinators and Native Plants with Matthew Shepherd

November 8, Tuesday, 7 – 9 pm

Audubon House, 5151 NW Cornell Road, Portland

Matthew Shepherd, Director of the Pollinator Conservation Program for the Xerces Society will do a presentation on “Pollinators and Pacific Northwest Native Plants.” For more information contact Tammi Miller at 503-292-6855 or tmiller@audubonportland.org.

26th Annual Wild Arts Festival

November 25, Friday, 5 pm – 9 pm

November 26, Saturday, 10 am – 6 pm

November 27, Sunday, 10 am – 4 pm

Lloyd Center DoubleTree Hotel, 1000 NE Multnomah Blvd., Portland

Come celebrate nature through art, crafts, and books at Audubon Society of Portland's 26th anniversary Wild Arts Festival this Thanksgiving weekend! Festivities will include an art fair featuring internationally-renowned wildlife painter Terry Isaac and 84 other artists (including NPSO members Sue Allen and Tanya Harvey), a book fair on Saturday with over 30 authors attending (be sure to purchase Bonnie Hall's new book—see page 107), a silent auction, and additional special activities to commemorate Wild Arts' 26th anniversary. Admission is \$4, or get in free with a membership purchased at the door.

For more information about the event, contact events manager Gary Slone at 503-292-6855 or gslone@audubonportland.org, or visit the Audubon Society's website at www.audubonportland.org/events/waf2005.



Pulsatilla occidentalis above Crater lake, Oregon.
Serigraph by Portland chapter member Sue Allen

NPSO Items for Sale

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2005). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**

The “Atlas of Oregon Carex” was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

“Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany” by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. Included: 56 pictures, 133 notes, chronology, list of plants named for Henderson. Fourth printing, February, 2004. **Price \$10.00.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to:
Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.

NEW Salal Tee Shirt. Attractive forest green tee shirts with botanical drawing of *Gaultheria shallon* in cream-colored ink by Carlton, OR artist and Cheahmill Chapter member, Marilyn Karbonski. High quality tee shirts, S - XL, short sleeve **\$15 plus \$5 shipping.** To order call Cheahmill Treasurer, Jennie Sue Dunn-Dixon at 503-472-1745.

Vascular Plants of Lane County, Oregon: An Annotated Checklist Emerald Chapter, NPSO. More than 1,740 species and varieties representing 39% of the 4,460 plants currently recognized by the Oregon Flora Project are listed with information on habitat, ecoregion, occurrence frequency, and native or non-native origin for every species. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. **\$12 each**, plus \$3 per order for shipping. Posters are mailed in tubes.

The Search for the Clover

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cliff openings. There are five ash-dependent plants listed under the federal Endangered Species Act. These include Ertter's ragwort (*Senecio ertterae*), Packard's blazing star (*Mentzelia packardiae*), grimy mousetail (*Ivesia rhypara* var. *rhypara*), sterile milk-vetch (*Astragalus sterilis*) and our featured plant, the Owyhee clover.

The flora of Leslie Gulch has been most impacted by habitat destruction and noxious weed invasion. Grazing and trampling by cattle, domestic and wild horses, bighorn sheep, and deer have caused damage to rare plants and spreading of non-native plants. In addition, roadsides provide an ideal habitat for the establishment of invasive plants. Fortunately, a management plan, finalized in 1995 by the Bureau of Land Management, carefully regulates human and ungulate activities. It prohibits livestock grazing, off road vehicles and limits the number of established roads. Also, non-native plants are treated along roadsides with hopes of preventing them from establishing.

Trifolium owyheense

The Owyhee clover is listed as an endangered species by the Oregon Department of Agriculture and a sensitive plant species by Bureau of Land Management. It is an endemic occurring in only the Owyhee uplands, a small area in eastern Malheur County (southeastern Oregon) and neighboring parts of Idaho. Within these locations the clover occurs on grayish-green, crumbly, ash substrates atop hills and down steep slopes.

The first person to discover *T. owyheense* was Mrs. Bessie F. Murphy, an analyst from Oregon State University. It was May 1954 when she was struck by the showiness of the flower, along with other characteristics which differed significantly from other known species of *Trifolium*. Hence, the Owyhee Clover was described as a new species.

Trifolium owyheense is a delightful little clover, typically seen as multiple single leaves poking out from beneath

the rocks. It is a perennial herb with multiple leaves that grow from a tap root. The leaves are grayish-green with three emarginate leaflets, each with a white crescent shaped stripe across the center. To the touch, they have a leathery texture and glaucous surface. The corolla consists of a flowering head which is rose colored above and fades to white below. The plant produces 2-3 elliptic spotted seeds. A distinguishing characteristic is its thick, broad overlapping stipules at the base of each petiole.

Monitoring Owyhee clover

The purpose of our trip was to assist the Bureau of Land Management in determining a method for monitoring the Owyhee clover and to find several good sites for monitoring. When monitoring any type of plant population, it is important to think about short- and long-term trends. In the case of *T. owyheense*, we are interested in the population dynamics, growth, and impacts of grazers, non-native plants and human disturbances. Thus our method of monitoring must measure the abundance and health over several years in such a way that does not disturb the species but still allows for

ample data collection. For example, a site on poor soil with a steep terrain would be in danger of erosional disturbance from a field crew, and thus is a poor choice.

With each of the sites we found, we surveyed the total area that the population occupied, described the habitat, and noted other vegetation. Of the 15 sites we located, six showed potential as good sites for long-term sampling. When deciding on locations, we look for sites that can be easily accessed on foot, but not so easy that they would be vulnerable to vandalism as well as being representative of the habitats seen in the non-sampled sites. This is especially important if the habitats vary greatly in location and other significant characteristics. The six potential sites were chosen because they represent a variety of population sizes, substrate types, elevations, herbivory pressures, and geographical locations.

Determining a method for monitoring *T. owyheense* is complex. It is difficult to determine the number of individual plants because leaf attachment to the taproot occurs underground. Excavations of the plants show varying sizes of taproots but no rhizomes.

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Owyhee clover (*Trifolium owyheense*) in Leslie Gulch, Malheur County, Oregon.

STEVE GISLER



The cliffs and spires of Leslie Gulch inspire awe in humans and form habitat for a diversity of plants and animals.

The Search for the Clover

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Thus, since individual plants cannot be counted from the surface, monitoring consists of leaf counts or estimates of the area the plants cover. Typically, permanent plots are established and monitored year after year. Also, we would like to assess the herbivory pressures by determining what types of animals have an impact.

Overall, our botanical treasure hunt was a success. With the statistical analysis of field data in the years to come, we will be better able to assess population dynamics and trends. I hope that you have enjoyed this look at the Owyhee clover from an ecological perspective and are inspired to take a trip of your own to explore the spectacular scenery and botanical treasures that Leslie Gulch has to offer.

Thank you to NPSO and the Institute for Applied Ecology for the opportunity to participate as an intern this past summer. The three months that I assisted in ongoing field projects and other activities have proven to be a unique, fulfilling and educationally-oriented experience.

Acknowledgements

Findley, Jean. 2004. Leslie Gulch. *Kalmiopsis* 11:3-8.

Gilkey, Helen M. 1956. A New *Trifolium* from Oregon. *Madroño* 13:167-170.

Contribute to ESOR at Your Workplace: It's So Easy

For thousands of Oregonians, the advent of fall means the changing of the leaves—and the arrival of charitable fundraising campaigns in the workplace. With the help of donors in the workplace, Earth Share of Oregon's (ESOR's) 66 non-profit conservation organizations receive funds to protect human health, preserve wildlife habitat, and reduce the causes and effects of global warming.

NPSO is a proud member of ESOR. What does this mean to you? You and your fellow employees can choose to have contributions sent automatically to your favorite Oregon conservation groups, including NPSO. Since your contribution is spread out over the course of a year, the amount deducted from your paycheck is minimal, and all gifts are fully tax deductible. You can make a difference!

If your workplace is not currently involved in an ESOR giving program, establishing one is easy. ESOR will work with your employer to set up a program that meets your company's needs. Oregon's natural beauty and livability is legendary. With your contribution to ESOR, you can help ensure that it stays that way. For more information, please contact Ron Shoals at ESOR: rrs@earthshare-oregon.org or 503-223-9015; or visit www.earthshare-oregon.org.



Earth Share
OF OREGON

Call For Papers

by Cindy Roché, Kalmiopsis editor

The editor of *Kalmiopsis* is still looking for articles for next year. All materials submitted should pertain to Oregon's native vegetation and flora. *Kalmiopsis* publishes two series articles: Plant of the Year, and Oregon Plants, Oregon Places, as well as articles about historical botanists and other features related to native plants or plant communities in Oregon. Please refer to previous issues of *Kalmiopsis* for length and content of articles; maximum length is 5,000 words. I would like to extend a particular invitation to authors writing about parts of Oregon not recently covered in *Kalmiopsis*.

Also, if you would like to be placed on a call list for writing book reviews or suggest titles for review, please contact the editor. Contact the editor for a copy of "Instructions to Authors":

Cindy Roché
109 Meadow View Drive
Phoenix, OR 97535
crupinaqueen@charter.net

New Logging Scandal in the Siskiyou

from the Siskiyou Project, www.siskiyou.org

For many people, it is hard to believe that more logging violations and scandals could take place in the controversial Biscuit logging project, but that's exactly what happened this week. The Siskiyou National Forest announced yesterday that CLR Timber Holdings Company, of Brookings Oregon, logged live, green trees within two unit boundaries of the Wafer timber sale.

Only fire-killed trees are supposed to be logged at the Wafer timber sale, a part of the Biscuit logging project near the west side of the Kalmiopsis Wilderness. Over 115 live trees were logged on slopes in units 131 and 133.

The new logging violation comes hot on the heels of the logging in the Babyfoot Lake Botanical Area in August. Previous violations, such as logging within the Kalmiopsis Wilderness Area, have made many people question the ability of the Siskiyou National Forest to adequately administer large industrial logging projects.

Congressman Peter DeFazio requested a formal investigation into the Babyfoot Lake Botanical Area logging. That request has not yet been granted. Now, more than ever, we need answers and accountability.

Call Congressman Peter DeFazio, and: 1. Thank him for requesting an investigation into the Babyfoot Lake Botanical Area logging scandal and urge him to FOLLOW-UP with his request to make sure the investigation takes place. 2. Ask him to tell the Forest Service to cancel remaining Biscuit logging sales—enough scandal is enough!

Congressman Peter DeFazio

Toll-free in Oregon: 1-800-944-9603
Eugene office phone: 541-465-6732
Washington, DC: 202-225-6416

Mailing Address:

151 West 7th, Suite 400
Eugene, OR 97401

As originally proposed, the Biscuit project is the largest logging project in modern National Forest history—a size that may have exceeded local Forest Service resources after dramatic budget cuts and staff reductions.

Though different scandals at Biscuit may have different causes, it is clear that the Forest Service needs public oversight now more than ever.

Despite this, logging industry lobbyists and politicians in Washington DC are pushing to gut laws safeguarding agency accountability to the public and environmental standards.

It is expected that Congressman Greg Walden (R-OR) will introduce legislation to increase logging after natural disturbances like fire in coming weeks. The bill will likely also mandate the creation of artificial tree plantations. Plantations are highly susceptible to fire, ecologically impoverished and notoriously costly to taxpayers. In fact, government agencies, conservationists and forest workers are cooperating with each other in many parts of the Northwest to restore tree plantations to a safer, more natural state. The expensive back-log of maintenance on millions of acres of tree plantations

CLR Timber Holdings, (aka South Coast Lumber Company) of Brookings, Oregon has been cited for breach of contract by the Forest Service. Logging at the Wafer timber sale has been suspended as a result. CLR Timber Holdings also bought the four Biscuit logging sales including Berry, Chetco and Steed.

Bulletin Mailing Coordinator Needed

Our current mailing coordinator, Mike Hartman, has served well in this position ever since the *Bulletin* printing moved to Eugene in 2000. Mike wears many other volunteer hats for NPSO so we need to find a volunteer to take over this position. We are looking for someone who lives in the Eugene-Springfield area and is willing to put in one day a month (during the next-to-last week of each month) organizing the mailing of the *Bulletin*.

To find out more information about the position contact Mike Hartman at 541-485-5202.



TANYA HARVEY

The white-flowered Dicentra formosa ssp. oregana is one of the many special plants found in the Siskiyou. Logging violations threaten sensitive species in the Biscuit burn area.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

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City _____ State _____ Zip+4 _____

Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Clayton Gautier, NPSO Membership Chair

3927 Shasta View St.

Eugene, OR 97405-4442

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

☐ New

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☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$18 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

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Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

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IMMEDIATE PAST PRESIDENT..... Bruce Newhouse2525 Potter, Eugene, OR 97405; 541-343-2364

VICE PRESIDENT..... Rhoda Love.....393 Fulvue Drive, Eugene, OR 97405-2706; vice-president@NPSOregon.org; 541-345-6241

SECRETARY..... Leslie Rossmellsecretary@NPSOregon.org, 503-288-8674

TREASURER..... Candice Guth1816 SE 34th Ave., Portland, OR 97214-5033; treasurer@NPSOregon.org; 503-235-0617

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry BakerP.O. Box 662, Athena, OR 97813; bm_president@NPSOregon.org; 541-566-2244

CHEAHMILL Rob Tracey8210 SW Broadmead Rd. Amity OR 97101-2444; ch_president@NPSOregon.org; 503-843-2702

CORVALLIS John Syring2630 NE Seavy Circle, Corvallis, OR 97330-4236; co_president@NPSOregon.org; 541-752-0414

EMERALD (Eugene) Dave Predeek.....3127 Kinsrow Ave. Apt. 71, Eugene, OR 97401; em_president@NPSOregon.org; 541-345-5531

HIGH DESERT (Bend)..... Berta Youtie PO Box 606, Prineville, OR 97754; hd_president@NPSOregon.org; 541-447-8166

KLAMATH BASIN Sarah Malaby.....kb_president@NPSOregon.org; 541-884-5703

MID-COLUMBIA..... Jerry Igo..... P.O. Box 603, Mosier, OR 97040

NORTH COAST Janet Stahl.....9780 Whiskey Creek Rd., Tillamook, OR 97141; nc_president@NPSOregon.org; 503-842-8708

PORTLAND Steve Roelof5042 N. Cecelia St. Portland, OR 97203; po_president@NPSOregon.org; 503-260-9487

SISKIYOU..... Armand Rebischkesi_president@NPSOregon.org; 541-482-2141

UMPQUA VALLEY (Roseburg) Ron Hatt878 Bear Pen Lane, Myrtle Creek, OR 97457-9584; uv_president@NPSOregon.org; 541-863-7024

WILLAMETTE VALLEY (Salem) John Savage1645 Church St SE, Salem, OR 97302-2908; wv_president@NPSOregon.org; 503-399-8615

WM CUSICK (La Grande) Frazier Nicholc/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; 541-963-7870

STATE COMMITTEE CHAIRS

EDUCATION Position vacant

CONSERVATION, EAST SIDE..... Position vacant

CONSERVATION, WEST SIDE..... Darlene Southworth.....866 Blaine St., Ashland, OR 97520; southworth@sou.edu; 541-261-3775

LEGISLATIVE..... Les Helgeson.....greenhills@oregoncoast.com; 503-398-5965

MEMBERSHIP Clayton Gautier3927 Shasta View St, Eugene OR 97405-4442; membership@NPSOregon.org

BUDGETS AND GRANTS..... Dan Luoma3740 NW Harrison, Corvallis, OR 97330; 541-752-8860

PUBLICATIONS

BULLETIN EDITOR..... Tanya Harveybulletin@NPSOregon.org; 541-937-1401

KALMIOPSIS EDITOR Cindy Roché109 Meadow View Dr., Phoenix, OR 97535, crupinaqueen@charter.net

WEBMASTER Norm Jensen.....webmaster@NPSOregon.org



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Native Plant Society of Oregon
Clayton Gautier, Membership Chair
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The Oregon Flora Project Needs Your Help!



www.oregonflora.org

The financial outlook for the the Oregon Flora Project in the new year is bleak. As we wait for funding decisions and submit additional grant proposals, we will be unable to maintain our staffing at its current level without your contributions. If cuts have to be made, we will lose some of our staff and many aspects of the Project will be unable to move forward. Please give generously to keep the Oregon Flora Project functioning during this interim.

The Oregon Flora Project will soon be announcing a giving campaign to raise funds for this important project. Have you used information from the Project in your work? To support your research? To design itineraries for outings? If so, please remind your supervisors and colleagues of the benefits that all enjoy through the use of Flora Project resources, and encourage them to join you in financially supporting this endeavor.

Contributions can be made with a check written to NPSO—Oregon Flora Project and mailed to:
Friends of the Oregon Flora Project
P.O. Box 402
Corvallis, OR 97339-0402