

Highlights of the State Board Meeting, June 10 in Corvallis

by Kelli Van Norman, Secretary

The Sunday morning quarterly state board meeting followed an event-ful Annual Meeting weekend. Thank you to the Corvallis Chapter for hosting the meetings.

Due in part to recent mailings by the Siskiyou and Emerald Chapters, membership has increased to 844 although is still lower than it has been in the past. It was suggested that NPSO membership information be included in the *Oregon Flora Newsletter* and the NPSO online chat group. The 2001 membership directory is available from Jan Dobak.

State Treasurer Eric Wold will be retiring before the end of his present term as he and his wife are expecting a baby in December. We are therefore now searching for a new treasurer. President Bruce Newhouse would welcome hearing from any person who would be interested in taking over this important post.

Steve Gisler from the Oregon Department of Agriculture (ODA) gave a slide presentation of over a dozen rare plant species in Oregon. ODA is actively gathering seeds, cultivating, and transplanting rare plants as well studying the hybridization and reproductive strategies of various species. Three species, *Luina serpentina*, *Mimulus patulus*, and *Senecio ertterae* will soon be removed from the Threatened list.

Field Research Grants: NPSO is awarding the \$750 Leighton Ho Memorial scholarship to Jason Fuller for his study on the effects of the cinnabar moth on native *Senecio* species. Sharon Stanton was granted \$750 for her proposal to study the effects of dwarf mistletoe on the wildlife habitat characteristics of old-growth ponderosa pine. Lisa Karst was awarded \$400 from the Rare and Endangered Plant Fund to study genetic diversity in populations of *Sisyrinchium sarmentosum*. Esther McEvoy received \$350 to document the efficacy of manual brush removal in the conservation of *Sidalcea hirtipes*.

Publications: *Kalmiopsis* volume 7 was mailed to members in May, and volume 8 is in the works. Occasional Paper Number 2, Life of L. F. Henderson, has sold 152 copies of 200 printed. Michael Hartman, the web site manager, is revising the web page (www.NPSOregon.org). He requests a 200-word description of each chapter for the web page. Tanya Harvey, the *Bulletin* editor, appreciates all the recent submissions. Please send submissions to Tanya in electronic format.

Exciting news from Scott Sundberg on the Oregon Flora Project. They are planning to finish the treatment of monocots other than grasses in August. The Asteraceae checklist is now online in text form and can be downloaded, and it will be online in a searchable database form by mid-summer. Congratulations to Aaron Liston for receiving a grant for over \$14,000 to purchase a digital camera and accessories for photographing specimens and herbarium sheets that will be available

for use by the Oregon Flora Project.

The Siskiyou Chapter is making plans for next year's Annual Meeting, which will be on June 7-9, 2002 at the Green Springs Inn, 20 miles east of Ashland.

In This Issue

Chapter Calendar97
Other Events100
Why the Orchid Has its Spots?102
Review of Handbook of Northwestern Plants103
New Members104
Illustrated Plant Keys Now Available104
Biography of Charlene Simpson105
Researcher Requests Help with Columbine Study106
NPSO Items for Sale106
NPSO Annual Meeting Highlights108



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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.

Editor's Note

Reminder About Double Issue

This issue of the *Bulletin* covers both August and September. The following issue will return to the usual schedule with a submission date of September 10th and should arrive by October 1st.

I hope many of you have been able to get outside to enjoy the summer. We would love to hear about your exciting botanizing expeditions or just about a nice wildflower spot you visited. Please send all submissions electronically to me at bulletin@NPSOregon.org. If you're not computer-savvy, try to get help from someone in your chapter who is. Sorry to be such a stickler about this, but it's the only way to keep the job manageable. If you haven't gotten out to enjoy the wilderness yet then it is time for a break! It'll be Autumn before you know it.



Field trip participants at this year's Annual Meeting in Corvallis enjoy exploring the natural rock gardens at the top of Mary's Peak. The outcroppings were ablaze with Castilleja hispida (including one yellow one), Lupinus lepidus lobbii, Lomatium martindalei and Phlox diffusa.

96 NPSO Bulletin

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NPSO CALENDAR

Blue Mountain

For information on the Blue Mountain chapter call Jerry Baker at 541-566-3381.

Cheahmill

September 9, Sunday

Field Trip: Drift Creek Falls Trail, Coast Range. 10:00 am. This area offers an excellent example of the deep forest of the Coast Range. A 75-foot waterfall is our reward at the end of a mile and a quarter hike in. There are some steep grades to the trail, but it is not a difficult hike. Bring a lunch and water. There is a \$5 per vehicle fee at the trailhead parking lot. For more info, to register, and directions, call trip leaders Chuck and Patti Buffett at 503-474-1386.

September 27, Thursday

Meeting: Wildflowers of the Siskiyou Mountains. Linda Hardie of the Nature Conservancy of Oregon and the Portland Chapter of the NPSO will present a slide program featuring native species blooming in the Applegate River and Illinois River Watersheds from the summit of Cook & Green Pass to Rough & Ready Creek and Eight Dollar Mountain. 7:00 pm, Carnegie Room, McMinnville Public Library, 225 N. Adams Street, McMinnville. For more information contact Susan Williams at 503-538-1865 or helgesusan@home.com.

Corvallis

For information on the Corvallis Chapter call Esther McEvoy at 541-754-0893.

Emerald

August 16, Thursday

Work Party: Lane Community College Herbarium. Join us in mounting

recently-collected specimens and other tasks that help get our NEW herbarium space all set up. This is an opportunity to acquire some skills with herbarium work. Refreshments provided. 9:30 am until noon. LCC Science Bldg., Room 117. For more information and directions contact Gail Baker, 541-747-4501 x 2085 or bakerg@lanecc.edu.

August 19, Sunday

Field Trip: Conifer ID on Crawfish Trail east of Cottage Grove. If you can't tell pacific silver fir from noble fir from alpine fir, or you can't tell western white pine from sugar pine without a cone, this is the trip for you! Leader

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. 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. Bring water and lunch. 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.

will be Nate France. Moderate hike: 4 miles round trip + 1000 ft. elevation gain. Meet 9:00 am northeast corner of South Eugene High School parking lot or 9:45 am at the Cottage Grove Ranger Station east of town on the Row River Road. For more information, call Peggy at 541-744-0439.

September 24, Monday

Meeting: In Search of the World's Oldest Trees. "Every tree sends its fibres forth in search of the Wild." (Thoreau). In July, 2000, three NPSOers journeyed to California's White Mountains to experience the beauty of the 5000-year-old bristlecone pines and try to understand the reasons for their extreme longevity. Charlene Simpson and Rhoda Love will show slides and tell you what else they found in the stark high altitudes of this remote range. 7:30 pm, Room 117, Science Building, LCC main campus, Eugene. For more information contact Nick, 541-334-4499. Enter on Eldon Schafer Drive (turn at the stop light on 30th Ave.), park in the parking lot at the top of the hill (the LCC south parking lot), and walk down to the Science Building.

October 22, Monday

Meeting: Fungi That Mimic Flowers. Dr. Bitty Roy, visiting UO professor, will treat us to tales of Fungi That Mimic Flowers (just in time for the annual Mushroom Festival). More details in October *Bulletin*.

High Desert

August 11, Saturday

Field Trip: Broken Top Volcano. This is our annual trek to view the spectacular glaciated scenery and alpine wildflowers in the High Cascades west of Bend. This is a six-mile round-trip, moderate-to-strenuous hike with a 1,700 foot elevation gain. We will do mostly off-trail hiking through the Three Sisters Wilderness, so hiker

numbers are limited to 12. If we can't go to Broken Top we will hike Black Crater. will depart from the north end of the main parking lot on the east side of Pilot Butte State Park off of Hwy 20 (Greenwood St.) in Bend at 8:30am sharp.Pre-registration is required! Call trip leader Stu Garrett for sign-up: eves 541-389-6981, the sooner the better!!

Klamath Basin

For information on the Klamath Basin Chapter, call David Lebo at 541-883-8393.

Mid-Columbia

September 5, Wednesday

Meeting: Surveying for rare Fungi, Lichens and Mosses. Marty Stein, head botanist for the Mt. Hood National Forest, will tell us about the surveys for rare fungi, lichens, and mosses that have keeping the Forest Service botany staff busy for the last several years. He will describe what they have looked for, what they have found, and how that relates to forest management. 7:30 pm at The Discovery Center in The Dalles; take exit 82 off I-84 and follow signs.

October 3, Wednesday

Meeting: Native Plants - In the Past Tense, a slide talk by Ann Trieu. Ann is working on a PhD in anthropology and her specialty is paleobotany, which combines archaeology and botany. In this fascinating presentation she will describe evidence uncovered in archaeological sites along the Columbia river that can tell us what plants were historically used by Native Americans, and for what purposes. 7:30 pm at The Discovery Center in The Dalles; take exit 82 off I-84 and follow signs.

North Coast

August 25, Saturday

Field Trip: Huckleberries, red and blue, at Mt. Hebo summit. If berries are not ripe, this trip will be rescheduled for September 22 or 23. Short hike. Bring a bucket. Also expect bunchberries, miner's lettuce, etc. Meet at 10:00am at the front parking lot of the PUD building at the south end of Tillamook at 11th and Pacific. For further information or if you intend to go, call John Gerke at 503-842-5366 or or e-mail him at johnroyal@juno.com.

September 4, Tuesday

Meeting: Oregon Flora Project slide presentation by Linda Hardison, Tillamook PUD meeting room at north east entrance at 7:00 pm. If you would like to join Linda and John Gerke in the afternoon for some short fields trips including Munson Creek Falls, please call John at 503-842-5366.

The uncommon, petite Phacelia verna, discovered on Mt. June during an Emerald Chapter field trip. Normally found in Douglas County, it is known from a few more northerly sites as here.

September 22, Saturday

Field Trip: Alternate for Huckleberries at Mt Hebo. See August 25.

Portland

August 11, Saturday

Field Trip: Multipor Fen. Explore this former Nature Conservancy subalpine mire with USFS botanist Carol Horvath. Assist Carol in locating and mapping the rare clubmoss, Lycopodiella inundata. Explore the 5 major vegetation types including low sedge, moss mound, Carex sitchenses, low shrub and shrub carrs. Enjoy a colorful wet meadow with excellent views of Mt. Hood and Tom, Dick and Harry Mtn. weather permitting! Leave 8:30 am, Gateway/NE99th Ave. Park and Ride, southeast corner of parking lot. Carpool to fen, near Government Camp. Call Carol at 503-775-2650 for further information. Be prepared for wet ground, very uneven terrain, no trail, and the necessity of walking through some areas with dense shrubs.

September 11, Tuesday

Meeting: A Year in Flowers from Washington to Louisiana to Baja California and More! Greg Stone, field trip chair for the Portland chapter, will be giving a show on various trips he's taken this past year. He will include trails from Louisiana, Baja California, Oregon, and Washington. 7:00 pm, Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St., in Portland. For more information contact Skip Haak, 503-460-3198.

September 15, Saturday

Field Trip: Beacon Rock Shores. Trip leader Russ Jolley will lead us to the shores of the Columbia River to see *Coreopsis atkinsoniana, Lindernia dubia, Mentha arvensis* and many others. Leave 8:30 am from Gateway/ NE99th Ave. Park and Ride, southeast corner of parking lot. For more info. call Greg Stone at 503-233-4761.

September 23, Sunday

Field Trip: West Bank of the Deschutes River. Join trip leader Paul Slichter as he shows us *Machaerocarpus californicus*, *Sagittaria cuneata*, *Lindernia dubia*, *Aster eatonii*, and many more East Gorge riparian species. Leave 8:30 am Gateway/NE 99th Ave. Park and Ride, southeast corner of parking lot. For more information call Greg Stone at 503-233-4761 or Paul at 503-661-3292.

Siskiyou

All trip participants will be required to sign a disclaimer. None of the trips are all access (on trails suitable for wheelchairs). For more information, call the trip leader or Don Heinze at 541-955-7247.

August 11, Saturday

Field Trip: Brandy Peak/Meadows (south of the road from Galice to Agnes). 10:00 am, US Forest Service Building, 200 NE Greenfield Road in Grants Pass just north of Exit 58 of I-5. Leaders: Maria Ulloa 541-471-6528,

Don Heinze 541-955-7247 and Janet Yoder 541-596-2697. See one of the most southerly stands of Alaska yellow cedar, along with late summer wildflowers and the unique grape fern in this remote part of the Siskiyou Mountains. Moderate 3-mile hike.

September 20, Thursday

Meeting: Potluck Picnic and slides. 6:00 pm at Glenwood Park, corner of Glenwood and Ashland (up Mountain to Ashland, then a short block to the right.) Bring a dish to share, a folding chair, a portable table if you have one, and some of your favorite recent plant slides to show at the meeting at 7:30 pm in Room 171 of the SOU Science Building, 3 blocks from the park. For more information call Molly Sullivan, 541-552-9908.

Umpqua Valley

September 13, Thursday Meeting: Botany Work in Equador. 7:00 pm at the Douglas County Court-

The aptly-named Pussy Paws (Calyptridium umbellatum or Spraguea umbellata) grows in open, gravelly areas of mountains that often resemble moonscapes. Like many of its relatives in the family Portulacaceae, it has fleshy leaves. Its puffy flowers range from pale pink to the brightest rose. Photographed above Blair Lake, Willamette National Forest.

house Annex Clint Emerson and Tom Delinks, from the U.S. Forest Service at Diamond Lake, will present a program on their botany work in Equador. They worked with lichen, bryophytes and fungi, and the Araceae family of plants. In the Western U. S. we have only one member of the Araceae or Arum family, the skunk cabbage, *Lysichiton americanum*. Call Jack Hausotter at 541-863-5347 for more info.

October 11, Thursday

Meeting: Flowers from a Swiss Farm, a presentation by Jim Long. 7:00 pm at the Douglas County Courthouse Annex. Call Jack Hausotter at 541-863-5347 for more information.

Willamette Valley

The Willamette Valley Chapter meets the 3rd Monday of the months of September, October, November, January, February, March, April and May. Our meetings are held at 7:00 pm in room 225 of the United Methodist Church, 600 State Street, in Salem. Program details will appear in the Salem Statesman-Journal prior to each meeting; also on the NPSO website, www.NPSOregon.org. Or call Karl Anderson, Chapter President, at 503-315-7329.

William Cusick

September 8, Saturday

Field Trip: Canyon Mountain/Strawberry Mountains Wilderness. Chapter president Frazier Nicholwill guide tour of lower (5-6000') elevation cold, moist riparian sites focusing on native perennials. Also (optional) dry, open ridge top sites requiring fairly steep uphill climbing in places. Expedition will begin at Driskill/Nichol wilderness edge "cabin" where gratis overnight facilities abound. Meet at west end (near video/pharmacy store) of John Day's shopping "mall" at 8:00 am, or check in the night before. Phone Frazier at 541-963-7870 (leave message).

OTHER EVENTS

Leach Botanical Garden Events

6704 SE 122nd Ave., Portland

August 18, Saturday, 9 - 11:30 am

Containing Invasive Plants. Strategies for the on-going control of invasive plants. This class will be of special interests to landowners along streams and creeks. Instructors: Jim Schiller, Botanical Supervisor for Watershed Revegetation Program, and James Allison, Botanical Specialist, Portland Bureau of Environmental Services. Fee: \$15/\$13.50 members. Class Limit: 20.

Pre-registration is required for all classes. To register call the Garden at 503-761-9503.

September 22, Saturday, 9am - 3 pm

Fall Plant Sale at Floyd Light Middle School –10800 SE Washington - just a few blocks east of Mall 205. Fall weather in the Northwest is a great time to jump-start your spring garden for the coming season.

The fall sale, which features a wide selection of high-quality northwest native plants, also will include unusual perennials, herbs, ferns, alpines, shrubs and trees. Along with many special plants propagated from the Leach Collection, over 20 specialty nurseries will display uncommon and hard-to-find native and non-native plants. Our Gift Shop will have plant books, gloves, tools and other special interest items available. Beautiful garden troughs made by our volunteers will also be for sale. "The Fall Plant Sale is a great place to find out about unusual plant materials which you can then purchase at below or near retail prices," says Scotty Fairchild, our garden steward. "It's also a great chance to mingle with many of the plant specialists of the Northwest."

Proceeds from the plant sale go to the care and maintenance of Leach Botanical Garden. For more Information call Leach Botanical Garden at 761-9503.

A Landmark Assessment of Oregon's Forest Sustainability Oregon State University – October 18, 2001

The free symposium is:

- the *source* of the latest information on conditions and trends in Oregon's forests.
- *insight* into what Oregonians believe and value about their forests and how this is changing.
- a *glimpse* into the landscape-scale modeling Oregon is using to assess forest conditions and frame forestry issues.
- an *innovative new perspective* that explores how Oregon is evaluating forest policy via internationally accepted measures of conservation and sustainable management.
- the *first step* by the Oregon Board of Forestry to revise the *Forestry Program for Oregon*, its comprehensive policy document.
- **Co-Sponsored by:** The Oregon Board of Forestry and the Oregon State University College of Forestry.

Location: The symposium will be held at the LaSells Stewart Center at Oregon State University, Corvallis, Oregon.

Contact: Casey Norton at the Oregon Department of Forestry, 503-945-7407 or CNorton@odf.state.or.us

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events. To register or to get more information on these and other events at the garden call 503-636-4112 or check out their website at http://www.berrybot.org.

August 28, Tuesday, 10:30am - Noon

Summer Garden Tour. You're invited to join Carolyn on these informal wanderings through the garden. Examine the collections up close, sniff fragrant summer blooms, and become better acquainted with the garden. If you have the time, pack a lunch and join staff, volunteers, and interns out on the back porch during the noon hour. Carolyn Devine. Free! Limit: 10

September 15, Saturday

Gardening for Wildlife: Using Native Plants in the Landscape. Second Annual Event at The Oregon Garden. Plants for sale, Seminars, Hands-on activities, Tours of The Oregon Garden... and lots more fun stuff! Call to 503-636-4112 register.

September 15, Sunday, 10 am - 3 pm

Fall Plant Sale. Berry Plant Sales are renowned in the Pacific Northwest for their outstanding selection of choice, unusual, difficult to find, must-have perennials, shrubs and trees. Nursery stock from over 15 specialty growers and Berry's own plants will be for sale. You'll also find books, troughs, tools, and more. At the Cedar Hills Recreation Center, on Cedar Hills Boulevard at Park Way in Beaverton.

Ivy Pull in Lafayette

August 19, Sunday, 2:00 pm

The Yamhill County Parks Board is organizing an ivy pull at historic Lafayette Locks Park just east of Lafayette on Hwy 99W on Sunday, August 19th at 2:00 pm. The park has large Douglas-fir, bigleaf maple, Oregon ash, and Oregon white oak that are heavily infested with English ivy. Bring gloves, loppers, etc., and help out our native species. For more info contact Dave Hanson at 503-843-4338.

Butterfly Field Trip

August 18, Saturday, 9 am

Field Trip: Butterfly Garden in the Mohawk Valley. Come see the wonderful butterfly garden of North American Butterfly Assoc. members Ed Cooley and Linda Mello. Their Mohawk Valley garden attracts a wide diversity of butterflies all summer long. Meet at the Campbell Senior Center parking lot (155 High Street, Eugene) at 9:00 am. Space is limited to 20. Contact Eric Wold at ewold@qwest.net or 541-431-7388, for required pre-registration.



Agastache urticifolia is a favorite of butterflies as this Fritillary can attest to at Moon Point in the Willamette National Forest.

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene

August 11, Saturday, 10 am-Noon August 18, Saturday, 10 am-Noon

Introductory Ecology of Mount Pisgah Walk. Tom Bettman, a trained Arboretum Nature Guide, takes you on a tour to learn about Mount Pisgah's habitats, wildlife, and ecology. All ages welcome. Meet at the Arboretum Visitor Center. Suggested donation \$3.

August 11, Saturday, 1-3:30 pm Dragonfly Adventures Workshop. Join Chris Beatty of OSU and learn about the life cycles, behavior, and variety of our native dragons, and seek out live examples of these ancient and beautiful insects! Fee: \$7 adults, \$5 kids. Pre-registration required. Call 541-747-1504.

August 15, Wednesday, 2-4pm

Elder Walk. Take a guided nature walk on the Arboretum's flatter trails and meet new friends on this 55+ event. Meet at the Arboretum Visitor Center. Suggested donation \$3. Call 541-747-1504 for more information.

August 18, Saturday, 9am-3pm

Nature Writing Workshop. Explore this popular genre and the theme "Writing about Landscapes" with instructor Carol Ann Bassett of the U of O Journalism School. Write your own piece in the inspiring setting of the Arboretum, and critique and discuss the day's work with your classmates. Fee: \$30 (\$25 MPA members). Pre-registration required. Call 541-747-1504.

September 8, Saturday

Animal Tracks. Preserve your favorite animal tracks forever with a technique taught by David Wagner. Learn how to cast tracks, or make your own. Call for time, cost and to pre-register at 541-747-1504.

September 22, Saturday, 8-10am Breakfast with the Birds. Scan the early morning trees and fields for fall birds. Beginners and experienced

birders welcome! Davey Wendt leads this walk. Suggested donation \$3. Meet at the Arboretum Visitor Center.

September 22, Saturday, 10-11:30am

Fall Equinox Nature Readings. Celebrate the equinox with other lovers of literature. Bring your favorite nature writings or just come and listen. Refreshments provided. Facilitated by Daniel Ray. Suggested donation \$2.

September 22, Saturday, 1-5pm

Insects Workshop. Sharon Blick, entomologist and founder of Nearby Nature, leads this class on an exploration of the insect kingdom. Learn about life cycles, anatomy, and the great variety of insect families that live all around us. Includes some field identification. Fee: \$20 (\$15 MPA members). Pre-registration required. Call 541-747-1504.

September 23, Sunday, 1-4pm

Introduction to Nature Photography Workshop. Discover the difference between merely taking pictures and creating beautiful photographs of the natural world. Learn the principles of effective composition and practice in the field under the guidance of professional photographer and LCC instructor, David Stone. All levels of experience welcome. Bring your camera, a roll of film, and a tripod if you have one. Fee: \$20 (\$15 MPA members). Pre-registration required. Call 541-747-1504.

September 30, Sunday, 1-4pm

Butterflies in Your Backyard. Learn about the ecology of the best loved insects of all: butterflies! Linda McMahon, a horticulturalist with OSU, guides you through the butterfly's world and what they need to be able to live in your garden. Fee: \$15 (\$10 MPA members). Pre-registration required. Call 541-747-1504.

Why the Orchid Has its Spots?

by Jean Herley, University of Oregon, Journalism student.

uring the spring of 2000 I was a student in the Bi 103: Wildflowers of Oregon course at Lane Community College. One of the intriguing local flowers we studied was Calypso bulbosa, the fairy slipper orchid, which uses deception to encourage pollination (Ackerman 1981, Boyden 1982, Andrews 1988, Alexandersson 1996). The pink to fuchsia coloring of these small flowers attracts bumblebees. Surely, such a colorful flower should contain nectar, but the bees visit and leave without a reward. In the process, though, they may remove or deposit pollen. For cross-pollination to take place the bee has to visit at least 2 flowers. Why would a bee continue to visit a nectarless flower? Eventually the bees do learn about the deception, but their learning is slow because the patterns of pink to magenta colored spots on the orchid's inflated slipper-like lower lip vary with each individual. This is enough to deceive the bees into thinking they are going to a different type of flower from the nectarless orchid they previously visited.

How variable are the patterns between individual flowers? Could our three classes of 24 students each see for ourselves? Not really, we would trample the habitat. Our viewing was restricted to what we could see from the Incense Cedar Trail at Mt. Pisgah Arboretum.

Our instructor, Gail Baker, did want us to be able to test the research findings on a local population. As an alternative Gail suggested that I carefully photograph as many individual flowers as possible to make a photo collection available for students to study pattern variation. Our proposal was supported by the Arboretum and Native Plant Society of Oregon.

I have enjoyed photographing flowers over the years, capturing their colors, shapes and intricate details. One afternoon this April, I spent several hours studying and photographing the population of *Calypso*. The delicate small flowers were scattered across several wooded sections of the Incense Cedar trail. I carefully maneuvered through the population and tried to photograph specimens showcased in filtered sunlight. A couple of times I had to stop and wait for clouds to pass. When I finished, I had photographed two shots of eighteen different individuals. The photographs accompanying this article are just a sample of the variations I found in spot patterns. The full collection of photographs will be used in the botany courses at Lane Community College and as an interpretive display at the annual Arboretum Wildflower Festival. They will also be available to the Arboretum's education program.



References:

Ackerman, J. 1981. Pollination biology of Calypso bulbosa var. occidentalis (Orchidaceae): A food deception system. Madroño 28(3): 101-110.

Alexandersson, R. 1996. Population size, pollinator visitation and fruit production in the deceptive orchid Calypso bulbosa. *Oecologia* 107: 533-540.

Andrews, M. 1988. Calypso bulbosa. Bulletin of the Native Plant Society of Oregon, May 1988.

Boyden, T. 1982. The pollination biology of Calypso bulbosa var. americana (Orchidaceae): Initial deception of bumblebee visitors. Oecologia 55:178-184.









Updated Version of Popular Regional Flora

by Gail A. Baker, Science Division, Lane Community College and Emerald Chapter, Eugene Oregon.

Handbook of Northwestern Plants. Revised Edition 2001. Helen M. Gilkey & La Rea J. Dennis. Oregon State University Press. 494 p. ISBN 0-87071-490-2. Paperback. \$29.95. Available in bookstores or by calling 1-800-426-3797.

The Handbook of Northwestern Plants has always kept up with new developments in plant taxonomy and the changing composition of our flora. The newest edition continues the 54-year-plus tradition. The last edition was published in 1980 and went out of print in 1999. La Rea Dennis completed the latest revision of this widelyused regional flora last year and the new edition became available this past May. The book will now continue to successfully fill an important niche in the available plant identification guides for the region between the Cascade crest and the Pacific Coast in Washington and Oregon as far south as the Umpqua Divide.

It is more comprehensive than many pictorial field guides, but does not require the technical skill needed to work through Flora of the Pacific Northwest by Hitchcock and Cronquist or the Jepson Manual. The keys in Handbook of Northwestern Plants have retained a minimum of technical botanical terminology by sticking to characteristics that are easily assessed by beginning botany students and amateur plant enthusiasts. For example the major choices in the dicot key still ask about presence or absence of petals, the shrub or herbaceous habit, inferior or superior ovary position or free or united petals. The longer keys have been numbered which is an improvement from the last edition. Two pages of line drawings of leaves and flower structures at the front of the book and a 12-page glossary at the end of the book are still available for reference to explain botanical terminology. An additional page of

fruit type illustrations might be useful because decisions about fruit types are included in the keys.

The bulk of the book contains descriptions of the families, genera and species of flowering plants, divided into the dicots and the monocots, with the exception of the wind-pollinated monocots, the grasses, sedges and rushes. Other floras must be used to identify genera from these special groups of plants. However ferns, horsetails, club mosses and gymnosperms are included. Twenty-one new families have been added and nomenclature has been updated.

This is an exciting time in plant systematics and taxonomy and many plant groups have undergone revisions. To reduce any confusion about plant nomenclature Dennis has included prior names, synonyms and common names for all species in the description and, most importantly, in the index. The False Solomon's seal, previously Smilacina, now in the genus Maianthe*mum* can be found in the index under all three of these names. Finding families is also quicker thanks to the addition of a much-needed family index on page 6. In future editions I would suggest that this be printed on the inside of the front cover for even greater utility. In the book plant families are still arranged according to a phylogenetic system. The genera however are now arranged in alphabetical order within the families.

Those of us who have used the book in our botany courses have often turned the quirks and omissions of past editions into instructional tools. Introduced plants like subterranean clover, Trifolium subterraneum (Fabaceae) and the tiny Moenchia erecta (Caryophyllaceae) are now included and we must find other examples to discuss the history and timing of plant introductions. The flower color of another member of the Fabaceae, Lathyrus sphaericus, has been corrected to orange-red. In the 1980 edition the flower color was noted as purple.

Legend has it that this error was because the description was written from an herbarium specimen rather than fresh material. In summary this new edition appears to be extremely welledited although some mistakes will undoubtedly crop up that will also teach us some valuable lessons.

The book is only available in paperback. A hardback option would make it more field worthy. An attractive photo of what looks like *Lilium washingtonianum* graces the cover, the photo and photographer are not identified. I was hoping that one of Helen Gilkey's drawings or a photo of a plant associated with her might be included on the cover or in a frontis piece to add to the historical information and tradition of this wonderful book that has initiated several generations of botanists. I am glad to see it back in circulation and available to inspire more

fledgling botanists and outdoor enthusiasts.



New Members

4/1//01 - 6/3/01

Cheahmill

Jacqueline Groth Dorothy Holt Janet Nybakke Andrew Salkield

Corvallis

Frank & Karen Morton

Emerald

Dan Bates Thea Cook Dennis Gilbert Joan Ojerio Stephen Ramey Aldine Rubinstein Don & Susan Tucker

High Desert

William & Catherine Ellis Rain Newhart Shirley Moilanen Walkey Mitra Woods

Mid-Columbia

Betty Borg Ron & Debbie McDonald

North Coast

Richard & Evelyn Wagner

Portland

Josh & Jessy Aguiar Michael & Janis McDowell Linda J. Moore Tabitha Reeder John Salmon Marcia Schulmerich

Siskiyou

Rosi Goldsmith Alex & Lillian Maksymowicz Peter Schuler

Umpqua Valley

Neal & Elee Hadley Margaret Williams

Willamette Valley

Jennifer Butler Robert Costa Ray Heller

Illustrated Plant Keys Now Available

The interactive keys for computer produced by Flora ID Northwest are now available with color images for virtually all species. Many folks from around the Northwest deserve thanks for allowing their slides to be copied to make this possible. Coincidentally, the Windows software the keys run in has been completely rewritten, resulting in keys that are much easier to use. The prices have been lowered, so that keys for an entire state are \$100, or \$300 for the entire Northwest. Keys are available ("statewide" only) for Southern British Columbia, Washington, Oregon, Idaho, Montana, Wyoming, Utah and Colorado. The distributor is The New York Botanical Garden Press, 200th Street and Kazimiroff Blvd, Bronx, NY 10458-5126, 718-817-8842, nybgpress@nybg.org.

The Mac version of the XID software has not been upgraded, but is available with the images on request from the NYBG Press.

Those currently using the keys may get an upgrade to the illustrated version by contacting Bruce Barnes, Flora ID Northwest, 731 NW 5th, Pendleton, OR 97801, 541-276-5547, flora@ucinet.com.

Friends of the Oregon Flora Project



Hopefully the last half of summer is presenting everyone with the opportunity to be outside and enjoy some beautiful part of our state. As you explore and botanize, think about how delightful it would be to have a new, complete flora for Oregon! Imagine instantly making distribution maps of all those plants you want to find on your next outing, and looking at photographs of each of them online. These things can happen when you support the Oregon Flora Project! Your con-

tributions will help to put the Checklist, a new Flora, and the Atlas of Plant Distributions into the hands of plant enthusiasts even sooner than planned.

The Friends of the Oregon Flora Project Committee extends a welcome to those interested in joining our committee. We meet monthly in Corvallis to brainstorm and accomplish fundraising and outreach events. Please contact Linda Hardison 541-745-5770 if you would like to participate.

Your checks for the Flora Project can be made out to NPSO (with "Oregon Flora Project" on the memo line) and mailed to:

Friends of the Oregon Flora Project P. O. Box 402 Corvallis, OR 97339-0402

At the Annual Meeting in Corvallis, Veva Stansell, Charlene Simpson, and Rhoda Love were honored as Fellows of the Native Plant Society of Oregon. Charlene's biography appears below, Rhoda's and Veva's were in the previous two issues of the Bulletin. Congratulations again to these three long-time members. The accompanying song was sung after they received their awards.

Charlene Simpson

by Rhoda Love

Charlene Simpson wears many hats: mother and grandmother, part-time University of Oregon student financial aid counselor, community committee person, and avid lay botanist. Her botanical interest dates back to childhood Camp Fire Girl projects and a Dad whose motto was always, "I brake for wildflowers." Family and career obligations, however, restricted serious pursuit of botany in her early years.

Although born in Colorado, Charlene has lived in Oregon since the age of two. "I know this dates me, but when I moved to Oregon, Eugene's population was less than 20,000 and what is now the south half of town was farmland." She points out that this predated the Long Tom, McKenzie, and Willamette River flood control projects. "You don't know what a wetland really looks like in Eugene, unless you lived then!" she exclaims. Charlene received her baccalaureate degree in home economics from Oregon State College and her Master's degree in interdisciplinary studies/juvenile corrections from the University of Oregon. She says now, however, that if she had it to do all over again, her degrees would be in botany.

Charlene got her first SLR camera in 1975 and purchased a macro lens a year later. From the first, her favorite photographic subjects were wildflowers. She took a community education class in botany at Lane Community College followed by a summer session class at the University of Oregon. She bought Gilkey and Dennis' *Handbook of Northwestern Plants*, and the Hitchcock Manual and then, as she says, she was hooked.

In 1979 Charlene joined eight others from Eugene and Springfield to

found the Emerald Chapter of the Native Plant Society of Oregon (NPSO). David Wagner was the new chapter's first president and Charlene was its second in 1980-82. She has served the chapter in various other capacities, including secretary, rare and endangered plant chair, and field trip chair. She is a past NPSO Director and currently serves on the Bulletin Mailing Committee. Her current project is coordination of the Lane County Checklist Project, an effort to list

every Lane County native or naturalized vascular plant, with site-specific information, in an electronic database. The Checklist will be published by Emerald Chapter, NPSO in 2002.

It was through her work on the Lane County Checklist that she was asked to participate as a regional coordinator and project leader with the Oregon Atlas Project. Lane County's project, and the earlier Douglas County Floral Survey may be looked upon as prototype projects within their respective geographic boundaries. Both projects have been valuable resources in the development of the Oregon Atlas Project.

Although she doesn't call herself an environmental activist, Charlene takes citizen involvement seriously. This is borne out by her service on the Lane County Citizen's Advisory Committee for Management of Roadside Vegetation. She served two three-year terms, and was the committee vice chair. The committee worked with public works

Fellows Song

(To the tune of the "Whiffenpoof Song")

by Rhoda Love

From the Table Rocks at Medford,
To the place where lilies dwell,
To the dear old Colliers Bar we love so well,
Sit the botanists assembled,
With their Hitchcocks raised on high,
And the magic of their keying casts a spell.

Yes, the magic of our keying
Of the plants that give us hell,
Astragalus and Juncus and the rest ...
We will annotate our Jepsons,
While breath and eyesight last,
Then we'll pass like Peck and Stebbins and the rest.

We're three little ladies on our way, Veva, Rhoda, Charlene.

To stickleback creeks lined with Ocean Spray. Veva, Rhoda, Charlene.

[Repeat twice]

Gentians and Asters off on the scree, Blooms from here to Anemone. Lord, where to hide when we Pe-o-ny! Veva, Rhoda, Charlene.

staff to develop and implement an integrated management program which includes protection for Lane County's rare and endangered plant species.

Charlene's large and comprehensive botanical slide collection, with special emphasis on rare and endangered plants, provides a resource for illustrated programs. She has used this medium to educate NPSO members about Lane County's species of concern. Emerald Chapter's listing format assigns species of concern to three lists according to severity of threat. Charlene enjoys her role in the thick of the biennial reviews, and finds herself drawn to the debates and decisions like a butterfly to a wildflower!

Now retired from the University of Oregon she enjoys mid-week field trips and volunteering at the OSU herbarium. She looks forward to publication of the *Checklist of Vascular Plants of Lane County*, Oregon and to travel abroad, as well as to more botanical adventures with Veva and Rhoda.

Researcher Requests Help with Columbine Study

by Justen Whittall, Department of Ecology, Evolution and Marine Biology, University of California at Santa Barbara

I'm researching the evolution of pollination syndromes in the North American columbines. I've been astounded at plants' abilities to adapt to their pollinators. Therefore, I've picked columbines as a model system since they've made such spectacular evolutionary leaps in such a short time period (spurs from 2-18cm, colors range from yellow to red to white to blue, some flowers hang pendant and other stand erect). In order to reveal the mysteries of these evolutionary trends, I will need to verify that these morphological characteristics are genetic by

growing them from wild-collected seed in a "common garden" here at UCSB. This will follow with some DNA comparisons to determine the evolutionary relationships of these species and how the pollination syndromes have evolved. I will need wild-collected seeds from multiple populations of every species of columbine (24) from throughout North America (mostly west of the Rockies).

Although I have an extensive field season in progress, I could still use help completing the necessary sampling. Being so eager to find out the answers

to these questions, I was hoping that Native Plant Society members could help me in two possible ways:

- 1. Collecting and sending wild-collected seed from 5-10 individuals of any *Aquilegia* species in your area along with location and contact information.
- 2. Forwarding known columbine localities (and flowering dates if possible).

Seeds, localities, questions or comments can be sent to the address below. I would like to thank the small army of amateur and professional botanists that have been exceedingly helpful in locating seed and populations thus far. Please visit the website below to learn more about North American columbines and my research project.

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NPSO Items for Sale

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 is NPSO's second and most recent Occasional Paper, published in 2001. This fascinating, peer-reviewed, 64-page biography includes 56 historic and modern images. It is carefully and exhaustively researched with 133 notes plus chronology, lists of publications and plants named for Henderson. **Price: \$10.**

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.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2001). Available from Jan Dobak, 2584 NW Savier St., Portland OR 97210. \$3 postpaid.

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO 40th Anniversary Tote Bag has been produced by the Corvallis Chapter to commemorate this milestone year for NPSO. It is a sturdy black canvas bag 14"w x 14"h x 3"d featuring our signature *Trillium ovatum* in a screenprinted design by Bonnie Hall. The totes can be ordered while supplies last at \$10 a piece plus \$2 per bag for shipping from: Corvallis Chapter NPSO, 4090 NW Dale Drive, Corvallis, OR 97330. Treat yourself. Then consider Christmas or a uniquely Oregon gift to give on your travels.



Explore Nature with Children

Interested in being a nature guide for school children? The Mount Pisgah Arboretum in Eugene is looking for enthusiastic volunteer nature guides to lead local elementary school children on Fall Ecology tours. Natural history training and educational materials are provided. Volunteers are required to lead a minimum of one morning tour per week (October 1-November 9). Orientation begins September 6. For information or an application, call the Education office at 541-747-1504.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name		DUES include monthly Bulletin and Kalmiopsis when		
Address		Membership is for the calendar year. New memberships enrolled after September 1 include the following year.		
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Jan Dobak, NPSO Membership Chair 2584 NW Savier St. Portland, OR 97210-2412		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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NPSO Annual Meeting Highlights

June 8-10, 2001, Corvallis

The Corvallis Chapter hosted an excellent weekend of field trips, talks and a great banquet at the annual meeting, and we thank them greatly for it! Here are a few highlights:

- The Friday evening reception at the Autzen Center for the Humanities drew about 55 attendees. Friday's program included Jerry Igo's fascinating video showing the landscapes and biota encountered by Lewis and Clark, and Loren Russell's slide presentation "Alpine Plants in Oregon", which emphasized the geographic origins of our high elevation floras.
- Banquet attendees at the Courtyard Inn, were treated to a pleasant pre-dinner social hour during which a lovely string quartet played. The musicians were Janet Eberhart, Joyce Eber-

hart, and Betsy Goy. Botany books donated by the family of the late Bob Powne of the Portland Chapter were offered in a silent auction, the proceeds to benefit the Oregon Flora project.

- The 2001-2002 officers and board members at large were sworn in. Officers include: Bruce Newhouse (President; repeating); Mike McKeag (Vice-President; repeating); Kelli Van Norman (Secretary; new), and Eric Wold (Treasurer; repeating). New board members at large include: Rhoda Love, Kareen Sturgeon, and Jim Duncan.
- The lifetime Fellows Awards were awarded to Rhoda Love, Veva Stansell, and Charlene Simpson. The three awardees, accompanied by Dr. Ken Chambers on baritone horn, then involved the audience in a sing-a-long to

a humorous song they had composed.

- The Jean Davis Memorial Fund scholarship of \$1000 was awarded to Julie Filipski of Lane Community College. Julie will be attending Oregon State University next year.
- Dr. Boone Kaufmann of the OSU Department of Fish and Wildlife was the featured speaker Saturday night. He gave the audience an inspiring overview of "Ecological approaches to restoration of native ecosystems." His discussion of the impact of grazing and forestry on stream quality and fisheries emphasized the interconnections of terrestrial and aquatic systems. It was instructive to see how grazing practices which degrade stream-side vegetation lead to downcutting of streams which then destroys the hydrology of wet meadows.