



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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MAY 2009

Jack Hausotter was a long-time member of the Umpqua Valley chapter, and before his death in 2003 served as president of the chapter for a time. Known as the "mushroom man," his interests were broad. He enjoyed geology, birdwatching, native plants, and, of course, mushrooms. He passed on much of his knowledge to his high school students in Roseburg, Oregon, to those taking his classes at Umpqua Community College, and to his many colleagues and friends. We thank you, Jack, and also Ron Hatt, Jack's friend and fellow Umpqua Valley chapter member who graciously made this article available and who did some light editing on it. An explanation of various terms used in the text is located at the end of the article.

Lichen: A Member of Lichenes

A group of plants composed of a fungus whose mycelium forms a matrix in which are distributed algae living in a symbiotic relation with the fungus.

by Jack Hausotter

Lichens were named by the ancient Greek medical writer, Dioscorides, who thought they looked like the skin of people afflicted with leprosy. Sixteenth-century botanists thought they were secretions of soil, rocks, and trees, while nineteenth-century botanists deduced they were composed of soil and water. Others came to the conclusion that spontaneous combustion was the formative agent!

There are at least 20,000 species of lichen. (GR. leichein, to lick). They are recognized as individual plants, although they are composed of a fungus and algae. At least 30 different species of algae have been identified in lichen. The algae manufactures food through the process of photosynthesis, while the fungi furnishes protection from

desiccation and stores water. The lichen therefore survives where an algae or fungus by itself would perish.

REPRODUCTION: Lichen can reproduce from broken fragments of the thallus. The lichen also produce mealy bodies called soredia, and small coral-like outgrowths of these small bodies have algal cells and a few strands of fungal hyphae. When shed, they have a potential of producing new lichen plants. The fungus portion of the lichen produces spores which will grow into another fungus. This fungus must find a compatible alga to be able to create a new lichen.

LICHEN COLOR: The thallus of the lichen would be plain white if there were no algal layer. Green algae produces lichen that are mineral gray

or gray-green. Blue-green algae of the phylum Cyanophyta can produce brown or black lichen.

WATER: Lichen could be called the "plant camels" of the plant kingdom. On dry days, the water content of lichen may be 2% to 10% of its dry

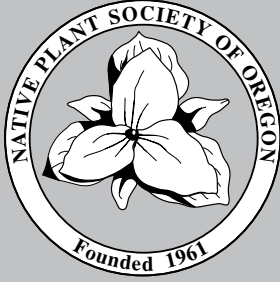
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NPSO Annual Meeting June 5-7 in Yachats!

Go to <http://corvallis.npsoregon.org/meeting/2009meeting.html> for the full schedule of events and interesting field trips (or see the March issue of the *Bulletin*). Coastal habitats and rare plant conservation in Oregon will be the subject of featured banquet speaker Dr. Tom Kaye's talk. The beautiful Jim and Janice Gerdemann Botanical Garden is nearby and is worth a visit (http://gerdemanngarden.org/news_and_events.html). For information about Yachats, look at <http://www.yachats.org>.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOoregon.org>

E-mail Discussion List

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

State Board Quarterly Meeting Highlights

The main action item facing the NPSO Board of Directors at the April 4th meeting was to consider joining a lawsuit contesting the BLM's Western Oregon Plan Revision (WOPR). After agreeing that "NPSO members will be materially and adversely affected by the WOPR and activities and impacts inherent in its implementation," the Board reaffirmed its January vote and approved joining the Steamboaters, McKenzie River Flyfishers, and Western Rivers Council as parties to this action. We will be represented by the Western Environmental Law Center. Our financial contribution (up to \$500) will be covered by the directed gifts of generous benefactors so that none of our usual activities will be affected.

Another important decision was to forego a dues increase of \$2 at this time. By keeping dues low, we hope to more readily increase membership. Each member is encouraged to attempt to gain new members. Please point out the accomplishments of NPSO and the benefits of membership to our friends and acquaintances. Failure to increase membership this year will necessitate program cuts or an increase in dues next year.

It was announced that our latest NPSO Fellow is Frank Callahan of the Siskiyou Chapter. Frank was nominated by Cindy Roche, and supporting letters were provided by Frank Lang and Aaron Liston. Frank will receive his award and plaque at the Annual Meeting banquet in Yachats on Saturday evening, June 6. (See story and picture of Frank on page 21 of the February 2009 *Bulletin*.)

Conservation Alert! Oregon Endangered Species Law Endangered!

Due to the projected downturn in state funds, all state agencies are drawing up scenarios for reducing budgets. Unfortunately the current Oregon Department of Agriculture's plan includes eliminating state support for Oregon's threatened and endangered plant conservation program. Oregon has 58 listed species of native plants and dozens of others that are in danger of going extinct. This cut would halt all state-supported conservation efforts and impact the endangered species regulatory efforts required by ORS 564.105. Implementation of requirements for agencies (such as ODOT) to manage state-listed species, and the ability to compel the state to protect native plants, through petition or litigation, would become problematic. Obviously these proposed actions would undo the hard work that NPSO and others put into obtaining state-level protections for threatened and endangered plants. This regressive plan is particularly ill conceived in the face of increasing threats to biodiversity. The onslaught of global warming and concomitant regional climate change call for maintaining conservation efforts for our native plants, not reducing them. NPSO members may want to let the Governor, their state legislators (particularly Eugene Senator Vicki Walker and Pendleton Representative Bob Jensen) and ODA Director Katy Coba know their views on the proposal to eliminate Oregon's Native Plant Conservation Program.

The Joint Committee on Ways and Means held a series of public hearings in April, and will hold one on May 1 in Eugene, to take public input on the Oregon Department of Agriculture (ODA) proposed cuts in funding. The Eugene hearing will take place at the University of Oregon, Prince Lucien Campbell Hall, Room 180, 1-4 pm. As many NPSO members and others as possible are encouraged to attend this hearing. Your attendance could make the crucial difference!

Blue Mountain

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

Cheahmill

For more information visit the chapter website: <http://www.oregon-nativeplants.com>. **Note: There will not be a meeting on the 4th Thursday of May. Join us at the Wildflower Show on May 2 & enjoy a number of field trips instead.**

May 2, Saturday, 10 am-2 pm

Wildflower Show and Native Plant Garden Celebration. 2009 is the 10th-year anniversary of completion of plantings in the Native Plant Garden at the McMinnville Public Library. During Cheahmill chapter's annual Wildflower Show a birthday celebration for the Garden will be held at the Library, 225 S.E. Adams St., McMinnville. Enjoy the mature plants and join us in honoring some key people from the Garden's earliest days. The Wildflower Show includes locally-collected native blooms, invasive species exhibit, native plant sale, and exhibits from our Partners in Purpose organizations. See (<http://www.oregon-nativeplants.com>) or call Marna (503-835-1042).

May 9, Saturday, 9:15 am

Field Trip: Deer Creek Park. See progress on wetland prairie restoration of habitat which includes *Lupinus sulphureus* ssp. *Kincaidii* and Fender's blue butterfly. Dave Hanson, park steward and past president of Cheahmill chapter, will explain the hydrology of the still-wet site, which is being restored to its original state after agricultural disturbance. Meet at 9:15 am at the corner of N.E. Linfield Ave. and Blaine St., McMinnville, adjacent to the Linfield College campus. Take Hwy. 99W in south McMinnville, then turn east at Jake's Deli onto Linfield Ave. Or, meet at the park at 10:00 am. For more information, call Robert at 503-835-1042 or Dave at 503-843-4338.

May 16, Saturday, 8 am-1 pm

Field Trip: Tualatin River National Wildlife Refuge. This new refuge contains salmon, steelhead, and bird habitat and includes remnant and restored communities along streams, wetlands, forests, meadows, and grasslands. Craig Markham, Cheahmill chapter past president, will lead the hike. Meet in McMinnville at 8 am at the corner of N.E. Linfield Ave. and Blaine St., adjacent to the Linfield College campus. Take Hwy. 99W in south McMinnville, then turn east at Jake's Deli onto Linfield Ave. Craig will meet us at the Refuge headquarter's parking lot at 9:00 am (look for the brown Refuge sign one mile north of Sherwood on the west side of Hwy. 99W). Since Hwy

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 some 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.

99W is divided, drive ¼-mile beyond the Refuge entrance and make a left U-turn beyond the entrance, then a left U-turn back to the entrance. Robert, 503-835-1042 or Craig, 503-537-0587 for details.

May 24, Sunday, 8 am

Field Trip: Native Grass Identification Workshop. Karl Anderson, Willamette chapter member, has been working on a small upland prairie restoration project southeast of Salem. Most of the eight native grass species there should have sufficiently developed inflorescences by the end of May to be identified. Hand-outs on basic grass morphology will be provided. Meet in McMinnville at 8:00 am at the corner of N.E. Linfield Ave. and Blaine St., adjacent to the Linfield College campus. Take Hwy. 99W in south McMinnville and turn east at Jake's Deli onto Linfield Ave. For more information call Robert at 503-835-1042.

Corvallis

To join the Corvallis e-mail list to receive notification of upcoming events, please e-mail matt@appliedeco.org

May 7, Thursday, 7 pm (Please Note: Not our usual meeting time or place)

Meeting: Benton County Prairie Conservation. Join us for a panel lecture on how prairies and oak savanna are being restored on public lands in Benton County. 99% of these habitats have been destroyed and a number of rare species (some found nowhere else on Earth) have drastically declined. Jarod Jabousek (USFWS), Al Kitzman (Benton County) and Ann Kreager (ODFW) and their agencies are working to increase rare prairie species populations. Corvallis Public Library. Questions? E-mail matt@appliedeco.org.

May 11, Monday, 7 pm

Garden Party and Short Hike. Meet at Avery Park to work on the native plant garden for about an hour, then we'll take a short hike around the Park to

look for wildflowers. Bring garden tools and a dessert to share.

May 30, Saturday, 8:30 am

Field Trip: Florence Coast. We'll spend the day scoping out the field trip locations for the NPSO Annual Meeting June 5-7. A long day and a fast pace, with lots of stops and an open itinerary as we plan for the Big Event. Bring rain gear, boots, lots of food, and water. Meet in the parking lot just west of The Beanery on 26th and Monroe in Corvallis. Questions? Contact Rob, weissrwa@hotmail.com.

June 27, Saturday, 8 am

Field Trip: Iron Mountain. Spectacular wildflowers with well over 200 species of vascular plants occur along this botanically-rich trail west of Santiam Pass. Moderately difficult 5-mile hike. Meet 8 am at OSU parking lot S.W. of The Beanery, 26th and Monroe. Note: This is earlier than the usual mid-July peak bloom, and snowdrifts will probably be on the trail.

Emerald

May 1, Friday, 5 pm-6 pm

May Day Wildflower Stroll. To commemorate Native Plant Appreciation Week, Rhoda Love will take us on a wildflower walk to see the spring blooms. Arboretum plant lists will be available. Meet at Arboretum Visitor Center. Free. For more information, call 541-747-3817.

May 2, Saturday, 9 am-1:30 pm

Field Trip: Blanton Heights Oak Savannah Tour. To observe Native Plant Appreciation Week, Rob Weiss will lead a three-mile wildflower and lichen ID tour of a 200-acre parcel of land on Blanton Heights which the City of Eugene hopes to acquire. A lichen checklist will be provided. Bring water and snacks, and wear hiking shoes. Meet at 9 am at South Eugene High School. For more information, call Rob at 541-752-1362.

May 10, Sunday, 12 pm-5 pm

Mother's Day Native Garden Tour.

Visit eight private Eugene gardens where native plants are prominent features of the landscape. A tour brochure with plants and other information can be downloaded at <http://www.emeraldnpso.org> under "Gardening with Native Plants." Homeowners and NPSO members will be available at each site to answer questions. Four public landscapes are included in the tour. Garden visits may be made in any order, and car pools or biking is encouraged. Please direct questions to ngap@emeraldnpso.org.

May 11, Monday, 7:30 pm

Meeting: "The Living Soil—Why Bugs in the Soil Are So Important."

Dr. Andrew Moldenke, professor in OSU's Department of Botany and Plant Pathology, will talk about the arthropods of the forest floor, including mites, springtails, and millipedes. (Barefoot walk outside, anyone?) EWEB Training Rm., 500 E. 4th Ave., Eugene. 541-746-9478 to learn more.

May 16, Saturday, 9 am

Mt. Pisgah Arboretum Wildflower Festival Collection and Setup.

If you'd like to help collect flowers for the show, please contact David McClurg at dpm@efn.org or call 541-746-9478. To help set up the displays, come to the Arboretum at 9 am Saturday.

May 17, Sunday, 10 am to 4 pm

Event: Mt. Pisgah Arboretum Wildflower Festival. A plant sale and hundreds of native wildflowers on display, as well as live music, information booths of many local organizations, and food! Sponsored by Mt. Pisgah Arboretum, Lane Community College's Botany Dept., and Emerald chapter. For more details call 541-747-3817.

May 23, Saturday, 9 am-1 pm

Field Trip: Habitation Restoration at Dragonfly Bend.

City of Eugene ecologist Trevor Taylor will host a tour of habitation restoration work at Dragonfly Bend in West Eugene Wetlands. Meet at 9 am at South Eugene High

School. For more information, call 541-746-9478.

High Desert

To be added to the e-mail list for upcoming events, please contact Maria Britton at mebritton@bendbroadband.com. For questions or more information, please contact Eileen Obermiller at hd_president@NPSOregon.org.

Update: A Short List of Events

Planned This Year: Join us for a native grass identification field trip, an historic tour of Camp Polk Meadow with Martin Winch, and a McKay Creek monitoring of an ongoing restoration project. Volunteers are needed for a variety of events, including: helping the Old Stone Church Foundation design and install a xeriscape native garden, aiding in collection of data on the Pumice Grape-Fern, a "sensitive" plant, helping build a bird blind and a fence to protect the Grape-Fern, restoring areas of the Deschutes River with native plantings, and pulling weeds throughout central Oregon. Please visit our blog, <http://highdesert.npsoregon.org/blog/> for updates to these events, new events, useful links, and other volunteer opportunities. If you have suggestions for High Desert chapter field trips or would like to host an event, call Eileen Obermiller, 541-923-2777 or Eileen@dappledearth.com.

Klamath Basin

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

Mid-Columbia

May 14, Thursday, 7 pm

Vernal Pools. Dave Braun and Carolyn Wright will give an informal update on their work with vernal pools: how many have been discovered, where they are, and what plants and animals seem to inhabit them. Board Room, Bldg. 1, Columbia Gorge Community College, The Dalles.

North Coast

For information on the North Coast Chapter call Vivian Starbuck at 503-377-4141.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donjphoto@gmail.com.

May 14, Thursday, 7 pm

Meeting: "Old Growth Forests—How You Can Help." Oregon Wild will inform us about recent statewide NPSO legal action opposing the "Whopper" (Western Oregon Plan Revisions), a flawed old-growth logging plan which dramatically increases old-growth forest clear-cutting. Mt. Tabor Presbyterian Church, S.E. Belmont at S.E. 54th. Enter the church parking lot from S.E. 54th. Contact Billy Don Robinson, 503-515-1708, for more information.

May 17, Sunday

Field Trip: Columbia Hills Natural Area Preserve. Hike through the largest area of near-pristine grasslands in the Gorge to view, among others, lupines, desert parsleys, bitterroot, and penstemons and enjoy the spectacular views from the Blue Mountains to the Cascades. Joint hike with Friends of Columbia Gorge. Limited space. Contact Rene Tkach at Renee@gorgefriends.org for more information.

May 23, Saturday, 8 am

Hike: Angel's Rest. Join us to look for *Polemonium cameum*, *Iris tenax*, *Disporum hookeri*, *Streptopus amplexifolius*, and many others. Drive about 50 miles (round trip); hike about six miles with a 1500-foot elevation gain. Call to register: Jan and Dave Dobak, 503-248-9242.

May 30, Saturday

Hike: Hamilton Mountain. A hike of 7.6 miles, 2000-foot elevation gain with a variety of habitats, from Douglas Fir and oak woods to open meadows and cliffs with rock gardens. The flowers

are correspondingly diverse: calypso, spotted, striped, and phantom orchids, anemones and wallflowers, fairy bells and bronze bells, tiger lilies, and the rare *Lewisia columbianum*. Call Beth at 503-226-7919, 503-706-5108 (cell), or e-mail at magnus@pcez.com for more information.

Siskiyou

May 3, Sunday, 10 am

Field Trip: Illinois River Canyon Trail. Hike this spectacular trail from Briggs Creek to York Creek Botanical Area, an all-day 6-mile moderate hike led by Siskiyou Project ecologist Rich Naws, which features among other beauties a lovely rhododendron-like flower discovered by botanist Lilla Leach in 1930 (*Kalmiopsis leacheana*). Bring lunch and water. Meet at Ray's in Selma, just off Hwy. 199. Phone Rich at 541-476-6648,

May 9, Saturday, 9 am

Field Trip: Limpy Creek. This botanical hotspot features wet and dry serpentine habitats and a riparian area. An easy 1-2 mile hike. Meet at 9 am at USFS/BLM, 2164 NE Spalding (left side of road; meet in larger lot by second driveway). Do not drive directly to the trailhead, due to possible last-minute changes of blooming sites. From I-5 take south Grants Pass exit, left at first light. Spalding is first left after 4-way stop; building is only about 1 block down on left. Leader: Alex Maksymowicz, 541-482-1964.

May 16, Saturday, 9 am

Longwood Fire Revisit (Takilma Area). Severely burned in 1987, this area has been treated, rehabilitated, and experimented upon. Leader Tom Atzet, former Siskiyou National Forest ecologist, will show sequential pictures and give data on the ecosystem's response to these efforts. He'll also discuss fire ecology, and how to keep our native plants healthy. Meet at Taco Bell (next to Wal-Mart) at 9 am. From I-5 take south Grants Pass exit, left at 2nd light, Taco Bell is on corner. Contact Tom at 541-955-9529 or jatzet@budget.net.

May 17, Sunday, 10 am

Hike: Rogue Valley Trees. NPSO Fellow-to-Be Frank Callahan will lead us to a Hinds Walnut site on Bear Creek, followed by a trip to the Tolo Tavern to see the famous "Tolo Tree," a Gray Pine about one-half mile north of Tolo on Gold Ray Road. A quick jog to Ft. Lane historical site to see the Gallery Tree, and then to Foley Lane, a short rigorous hike to see both Gray Pine and California Buckeye. Meet at Albertson's in Central Point at 10 am. Bring a lunch and plan to carpool. Group size limited; pre-registration required. Call Frank Callahan at 541-855-1164, callahanseeds@gmail.com.

May 21, Thursday, 7 pm-7:30 pm

The SOU Herbarium (Rm. 206, Science Bldg.) will be opened for a half hour before the chapter meeting. To arrange access at other times call Dr. Steve Jessup, the curator, at 541-552-6804 or Connie Battaile, 541-488-0368.

May 21, Thursday, 7:30 pm

Meeting Talk: Shrubs of Southwestern Oregon. Which shrubs commonly grow in riparian areas, mixed conifer forests and oak woodlands? Max Bennett, forester and coauthor of a book on the subject, will answer these questions as well as identify some unsavory non-native shrubs and discuss natural history and ecological shrub lore. Room 171, Science Bldg., SOU, Ashland. Kristi Mergenthaler, 541-535-3659.

May 23, Saturday, 9 am

Field Trip: Grizzly Peak (Dead Indian Memorial Road, East of Ashland). See early spring flowers such as Fawn lily, yellow bells, small *Lewisias*, and *Lomatiums*. Easy-to-moderate 5-mile round trip, 600-foot elevation gain (5300' to 5900'). Meet behind OilStop, Ashland St., just west of the Ashland BiMart/Shop'n Kart parking lot, about ¼-mile west of I-5, exit 14. For more information, contact leader Jim Duncan, 541-482-7629.



May 25, Monday, 9 am-5 pm

Field Trip: Pokegama Plateau. An all-day exploration by car and on foot (easy walking) to see whitethorn (*Ceanothus cordulatus*), *Paeonia brownii*, *Mimulus pygmaeus*, and some scabland species; then to meadows along Long Prairie Creek to see “yampa” (and perhaps wild horses). Trip ends at Surveyor Recreation Area to see the rare green-flowered ginger in an old-growth forest remnant. Bring rubber boots, hat, lunch, water. Meet behind OilStop, Ashland St., just west of the Ashland BiMart/Shop’n Kart parking lot (about ¼-mile west of I-5, exit 14). Leaders: Connie Battaile, 541-488-0368 and Jim Duncan, 541-482-7629.

May 31, Sunday, 7 pm

Exploration of a Personal Native Plant Garden. Join Darren Borgias of the Nature Conservancy to enjoy a glass of wine and view his native “weed” patch. Pre-registration required by Friday, May 29. Contact Sasha Joachims at Sasharain@clearwire.net or 541-661-3492.

June 7, Sunday, 9 am

Field Trip: *Calochortus howelli*. This plant is on the dry serpentine slopes of Eight Dollar Mountain. Short, easy hikes (as well as some car transport) will take us in the vicinity to see it, as well as a Darlingtonia Fen in the area. Exact itinerary to be determined by what is flowering. Meet at Ray’s in Selma, just off Hwy. 199, at 9 am. Co-leaders are Suzanne Vautier (541-592-3939) and the Forest Service’s Karen McCullough.

June 13, Saturday, 8 am

Field Trip: Devils Garden, a volcanic “moonscape.” See June issue.

Umpqua Valley

Visit <http://www.umpquavalley.npsoregon.org> for more information on chapter activities.

May 2, Saturday, 9 am-4 pm

Native Plant Sale: Douglas County Museum of Natural History. Several varieties will be for sale, and chapter

members will be glad to answer questions about them. Handouts also available. Take I-5 exit 123, Roseburg, and follow signs to the Museum at 123 Museum Drive. For more information, check our website or call Donna Rawson at 541-459-2821.

May 14, Thursday, 7 pm

Program: Photo Journey Through Hawaii, Oregon, and California.

Dr. Gerald Carr, an Affiliate Emeritus Professor, Dept. of Botany & Plant Pathology at OSU, will draw on his 30 years as a biologist at the University of Hawaii-Manoa to present, among other interesting topics, glimpses of the Hawaiian Silversword Alliance, a superb example of adaptive radiation. He’ll talk of his quest to photograph as many Oregon plant species as possible, his efforts to develop internet resources for botanical instruction and identification, his approach to field photography—and more! Room 1, Mercy Community Education Bldg., 2459 NW Stewart Pkwy., Roseburg. For information call Donna Rawson, 541-459-2821.

May 16, Saturday, 10 am-4 pm

Living History Day, Mildred Kanipe Memorial Park, Oakland.

As part of Oregon’s 150th birthday celebration, the Friends of Mildred Kanipe Memorial Park and the Douglas County Park Department are co-hosting a Living History Day featuring all sorts of pioneer-type activities at this historic ranch (such as flint-knapping, civil war musketry, sheep shearing, spinning, butter churning) music (be sure to catch Commissioner Joe Laurence on guitar), square-dancing, skits, and food—or bring a picnic lunch. Umpqua chapter will offer native plants for sale and a nature walk. This is a no-admission-charged, come one, come all, community event. Kanipe Park is located 8 miles east of the town of Oakland. Go east on Oak St. in Oakland until you come to a left turn at Elkhead Rd., then take Elkhead Rd. to the Park, approximately 3-4 miles. For more information, contact Donna Rawson at 541-459-2821 or Celia Scott, 541-459-7952.

May 30, Saturday, 8 am

Field Trip: King Mountain. Ron Hatt will lead an easy stroll (if the snow is melted) to see short-stature plants which might be found in a rock garden. Meet at the NW corner of the parking lot behind the Douglas County Courthouse, west of Fowler St., Roseburg, at 8 am, or meet in the Riddle McDonald’s parking lot at 9 am. Questions? Call Ron Hatt, 541-863-7024.

Willamette Valley

May 9 and 10, Saturday and Sunday, 10 am

Program: Silver Falls State Park Mother’s Day Birding & Wildflower Weekend. Wildflower walks, beginning at 10 am and led by NPSO members, will be offered throughout both days. Starting point will be the historic South Falls Lodge. Bird walks, presentations, and photo hikes will also be available. For a full schedule of activities, call Dorothy Brown-Kwaiser at 503-874-0201. Free; open to all.

Saturday, May 16, 9 am-12 pm

Program: Native Plant Garden Tour.

A tour of native plant gardens at various Salem and Keizer locations, highlighting five garden types (rain garden, Oak savannah restoration, and elementary school gardens) will start at 9 am at Straub Environmental Learning Center, 1320 A St., NE, next to Olinger Pool. Directions to gardens and plant lists will be provided; guides will be present at each garden. Co-sponsored by the Straub Environmental Learning Center. For more information call 503-391-4145. Free.

May 31, Sunday, 7 am

Field Trip: Dog Mountain. Come view wildflowers on Dog Mountain, located on the Washington side of the Columbia Gorge. This all-day hike, classified as “difficult,” will be led by John Savage, Willamette chapter member. Bring lunch and water. To register, call 503-399-8615 after 7 pm.

weight. On wet days, some lichen will absorb 30 times its weight.

THE MANY USES OF LICHEN:

In Europe lichen are harvested for Usnic Acid to make an antibiotic salve. Iceland Moss, *Centraria islandica*, is used for expectorants. It has been used as a base and fixative for perfumes and mash for alcoholic beverages. Iceland Moss has been used to make bread, soup and porridge. The manna lichen, *Lecanora esculenta*, a desert species of crusty lichen, probably fed the Israelites in their plight in the desert. Lichens make up 60% to 90% of the diet of grazing reindeer and caribou. Reindeer moss, *Cladina stellaris*, is exported by Scandinavian countries for Christmas wreaths and floral decorations. This represents 2,000 to 3,000 tons annually. Hummingbirds and gnat catchers make use of lichen to cover their nests.

LICHEN IN THE ENVIRONMENT: Lichens produce substances which can modify minerals in rocks through chelation and lead to weathering. Lichens in Antarctica cause extensive exfoliation of Beacon sandstone, estimated to be 0.5 mm to perhaps 3 mm per century.

One hundred twenty-one species of lichen have been found in the tops of old growth fir trees. *Lobaria oregana* fixes nitrogen from the atmosphere. 350 to 450 pounds of *L. oregana* will grow on one acre of old growth Douglas Fir trees. Nitrogen leaches from the thallus by rain and washes down to be utilized by the tree. The aggregate amount of nitrogen produced by all nitrogen-fixing epiphytes probably is less than 44 pounds per acre. The amount of dislodged *L. oregana* that falls to the forest floor is probably about 80 pounds per acre each year!

Types of Lichen (grouped by growth forms)

Crustose: A lichen growth form with the thalli growing in close contact with the substratum and lacking a lower cortex and rhizines.

Subcrustose: A growth form intermediate between crustose and foliose, Usually with a typically crustose central part and lobed thallus margin.

Foliose: A lichen growth form with leaf-like thalli, and the lower surface free from the substratum.

Fruticose: A lichen growth form with an upright or pendulous thallus. It is shrub or hair-like, and usually radial in cross section.

Subfruticose: A lichen with a growth form intermediate between foliose and fruticose.

Squamulose: A lichen with scale-like lobes called squamules that are usually small and overlapping.

Terms Describing a Lichen's Habitat or Growth Preference

Corticolous: Growing on bark of trees or shrubs.

Epilithic: Growing on rock surface.

Endolithic: Growing just under rock surface and lacking any thallic growth on surface; usually on limestone or sedimentary rocks with calcium carbonate as the cementing agent.

Omnicolous: Growing successfully almost anywhere.

Saxicolous: Growing on rock substrates, such as mortar, cement, concrete or brick.

Silicolous: Growing on silica rocks by preference.

Terricolous: Growing on ground.

Structural Parts of Lichen Used in Identification Keys

Apothecia: The spore-bearing structure of lichen, open or disc-shaped fruit.

Cortex: The outer most layer of cells in a lichen thallus, consisting of compressed hyphal cells that appear to be cellular.

Gonidia: The green alga cells in a lichen. At one time these cells were considered to be reproductive bodies, therefore the name "gonidia."

Hyphae: Fungal filaments.

Isidium: (Isidia) Finger-like protrusions from the upper cortex.

Medulla: The inner part of the thallus, between the algal layer and lower cortex. The medulla consists of loosely interwoven hyphae.

Podetium: A hollow branched or simple upright structure as in *Cladonia*.

Rhizines: Attachment organ of foliose lichen consisting of compressed strands of hyphae on the lower surface of the thallus.

Scyphus: A cup- or urn-shaped structure at the end of a podetium or near the terminal end of a branching lichen.

Soredia: Microscopic clumps of several alga cells surrounded by hyphae and erupting at the surface of the thallus. One of the reproductive methods.

Thallus: The "plant body" of an individual lichen is called a thallus.

Umbilicus: A single strand of rhizines on the lower surface of umbilicate lichen which anchors the lichen to the substrate.



Ramalina farinacea, an extensively branched lichen found often on deciduous shrubs, is a member of the genus *Usnea*, and very common in the Northwest.

MIKE BURKE

OTHER EVENTS

Mount Pisgah Arboretum

34901 Frank Parrish Rd. (I-5, exit 189 to Seavey Loop Rd.), SE of Eugene. For more information or to register, call 541-747-1504 or visit <http://www.efn.org/~mtpisgah>. All activities will meet at the Arboretum Visitor Center unless otherwise noted.

May Day Wildflower Walk

May 1, Friday, 5 pm-6 pm

Celebrate native plants with botanist Dr. Rhoda Love, who will lead a one-hour, free wildflower walk through the Arboretum to see the beautiful natives currently in bloom. Offered jointly by the Arboretum and the Native Plant Society of Oregon, in honor of Native Plant Appreciation Week.

Audubon Society of Portland

Display of Native Plant Photos

Beginning May 5, Tuesday

Drop by the Audubon House, 5151 NW Cornell Rd., Portland to view the Native Plant Photography Contest photos. Winners will be announced at 2 pm on Sunday, May 17 at the Native Plant Sale, May 16-17 (see below).

Talk: Birds and Native Plant Communities

May 13, Tuesday, 7 pm

Well-known bird expert Dan Gleason will explore the complex relationships between plant communities and birds, many of which may exist in your own backyard. Audubon House, 5151 NW Cornell Rd., Portland.

Native Plant Sale

May 16-17, Saturday and Sunday, 10 am-4 pm

Browse among 100-plus species of plants which grow best in the Portland area. Native plant workshops on creating urban sanctuaries are offered on Saturday at 1 pm and 2 pm. Visit the

“Bargain Corner” on Sunday after 3 pm. Audubon House, 5151 NW Cornell Rd., Portland.

Berry Botanic Garden

All events will be held at The Berry Botanic Garden, 11505 SW Summerville Ave., Portland, 97219. Unless otherwise noted, for more information or to register, call 503-636-4112 x102 or register@berrybot.org.

Cape Horn Spring Beauty Hike

May 14, Thursday, 9 am-4 pm

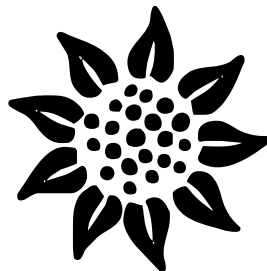
Join us for a 5-mile, moderate hike (some difficult footing) in an area known as a botanical wonder in spring, with its lush woods, wealth of spring wildflowers, and great views. Location details provided upon registration.

Hardy Plant Society

Talk: Native Plants for Native Birds

May 12, Tuesday, 7 pm

Bruce Newhouse, field ecologist specializing in plants, butterflies, birds and fungi, will speak about using our plantings to attract these to our yards and create healthier gardens. Bruce has a long and varied career in this field. A mini-clinic on attracting butterflies to feed and breed will be held by Ellie Ryan of NABA (North American Butterfly Association). Doors open at 6:30 for refreshments and book sales. \$6. <http://www.thehardyplantgroup.org>. On UO campus, Agate Hall, Agate St. at 18th Ave., Eugene.



Siskiyou Field Institute

1241 Illinois River Rd. at the Deer Creek Center, Selma, OR 97538 For more information on these events, or to register, call 541-597-8530 or visit <http://www.thesfi.org>.

Third Annual Conference on Klamath-Siskiyou Ecology

May 28-30, Thursday-Saturday

Scientists, resource managers, and engaged citizens discuss the scope and consequences of environmental change in the ecologically diverse Klamath-Siskiyou bioregion. Issues discussed will be forest ecology and management; watersheds, rivers and fish; wildlife ecology; endemic and sensitive species; forest pathogens and invasive species; and hidden diversity. Contact Andrew Englehorn, Siskiyou Field Institute at andrew@thesfi.org, 541-597-8530, or visit <http://www.thesfi.org> for updates and registration information.

Columbia Basin

Shrub-Steppe Ecosystem Conference

May 1, Friday, 9 am-4:30 pm

Place: The Columbia Discovery Center Museum, 5000 Discovery Dr., The Dalles. For more information, contact Keelia Johnston, 541-387-2274 or Keelia@gorgeecology.org.

Cumulative Index for *Kalmiopsis*

A comprehensive, cumulative index for *Kalmiopsis*, volumes 1-15 is now available. The index covers all articles, authors, book reviews, subjects such as NPSO Fellows and Plants of the Year, and more, that have appeared in *Kalmiopsis* to date. It is in a PDF format file. A link for accessing it can be found in the Newest Site Updates section on the home page of the NPSO website: <http://npsoregon.org>.

The Pacific Dogwood: Jewel of the Northwest Forest

There are about 100 species of the relatively small dogwood family distributed widely across the northern hemisphere, with some extending into the mountains of South America and (rarely) into the tropics. About half of all known species belong to the genus *Cornus*, although taxonomic splitters have suggested dividing this group into as many as eight separate genera.

So, Oregon cannot claim sole ownership for, say, the Pacific dogwood, or *Cornus nuttallii*, but when we spot its jewel-like white “flower” glowing against a dark forest background, it looks utterly at home. And indeed it is. The stream banks and moist river soils of much of western Oregon, and the shade of our remaining forests, appeal to the Pacific dogwood, and it is especially abundant in coniferous forests that have a good mix of deciduous trees such as the big-leaf maple and vine maple. It protects valiantly against

stream erosion where the soils are well-drained and deep and therefore is a good stream restoration plant.

The Pacific dogwood “flower” is not technically a flower at all: the four or six white petal-like leaves we admire arise at the base of very small, inconspicuous button-like flowers. April and May are the months to look for the white petal-like structures in the lowlands, and a bit later higher up. At least a few trees, it is said, will flower again in September. Its fall color of pinkish-red leaves is glorious. Eugene Kozloff, in “Plants and Animals of the Pacific Northwest,” goes so far as to say Pacific dogwood’s fall display is second only to the vine maple. The showy red or white fleshy fruits are perceived by many to be just as attractive, or more so, than the flowers. Technically, the fruits are drupes (like cherries) with a single, hard seed inside. Dogwood fruits are an important food source for grouse

and songbirds, especially in the months of August and September, when they are most conspicuous. The smallish Pacific dogwood (to an average height of 10 m) has therefore become a popular ornamental in bird-friendly backyards.

Leaves of the Pacific dogwood are also quite beautiful. They are of a bright green color in spring and summer, about 8 or 10 cm long, with a rather wavy margin, opposite, ovate to obovate in shape with arcuate (curved into an arch, like a bow) veins. A word of warning: if you’re trying to regenerate some Douglas fir in the vicinity of a Pacific dogwood, be aware water-soluble leachates from senescent dogwood leaves can slow down fir growth!

Particular thanks to Craig Fertig of the Wyoming Native Plant Society for his article on dogwood in the December 2008 issue of Castilleja. —Ed.

Two Scholarships Offered for Plant Systematics/Ecology Study

The Willamette Valley Chapter will once again be offering scholarship awards for 3rd year students who will be enrolling in plant systematics or plant ecology at an Oregon college or university for the 2009-2010 school year. The Jean Davis Memorial Scholarship Fund will award \$1,000 to the selected student. An additional student will be awarded \$1,000 from the Augusta Rockefeller Memorial Scholarship Fund.

The rules for both scholarships are identical, and therefore, only one application is necessary to be eligible for either scholarship award. However, only one award will be given to any one candidate. That means two recipients for the 2009-2010 school year. Applications will be accepted by mail until June 1, 2008. Don’t let this opportunity pass you by!

Rules for Scholarship Awards

1) Scholarships are available to students in Oregon colleges who are planning

their major study in plant systematics or plant ecology.

2) Scholarships are awarded in the amount of \$1000 to worthy students who will complete at least two years of satisfactory college work by July 1 of the year of receipt of application and are full-time students. Graduate students may be eligible if they meet all qualifications except that of full-time student.

3) Awards are made in the following manner:

a) A certificate is presented to the recipient.

b) A check in the amount of the award is submitted to the school of choice, as set forth in Rule 1, to be used toward tuition within the following academic year.

4) If an award recipient fails to enroll, changes his or her major, or leaves the school before completing the period for which the award was granted, the full amount or unused part of the money

shall be returned to the Memorial Scholarship Fund.

5) Applicants are required to submit:

a) In their own words, a statement of academic and career intent.

b) Two letters of reference from persons able to judge the student’s ability to successfully complete study in the area of plant systematics or plant ecology.

c) Full academic record(transcript).

6) The Scholarship Committee Chair must receive all applications, together with items listed in Rule 5, no later than June 1. The award will be made by July 1.

7) Scholarships cannot be granted to Scholarship Committee members or their relatives.

Please mail applications and the required documentation to:

Thomas Jenkins
Scholarship Committee Chairman
14380 Salt Creek Rd.
Dallas, OR 97338

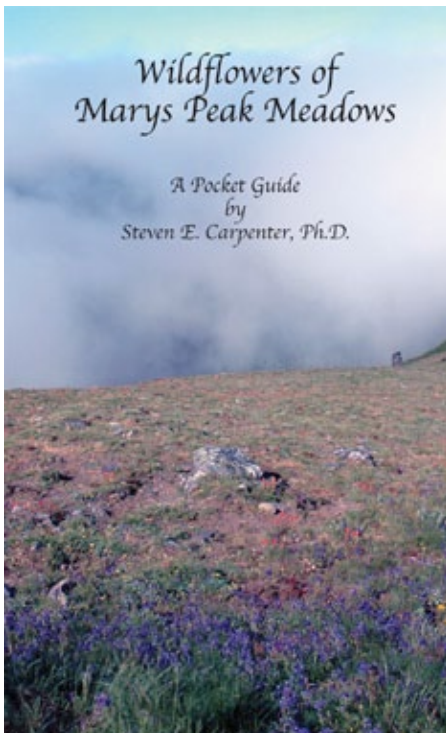
Book Review

New Pocket Guide to Mary's Peak Flowers

by Rhoda Love

This colorful new illustrated field guide to the wildflowers of the Mary's Peak meadows lives up to its billing as a pocket book – it fits in both the front and back pockets of my jeans! The title is *Wildflowers of Marys Peak Meadows* (the author's preferred spelling) and the publication date is 2009.

Author Steven Carpenter has been exploring Mary's Peak and photographing its flowers since 1969 when he was a freshman botany student at Oregon State University. He has now brought together his knowledge and images in a charming 136-page, 4" X 7" mini-book which features full-color photos and maps of 61 of the colorful spring flowers of the mountain's meadows. Steve used the OSU Herbarium and Oregon Flora Project records to re-search plant names. (A couple of these were unfamiliar to me, but the reader can annotate his copy of the book as he or she pleases and as names continue to change.)



Each species is given two pages of text, photos, and maps, and the spiral binding allows the book to lie flat as you study the pictures and read the text. As Steve states in his introduction, there are no scientific keys; the flowers are arranged by color: white, yellow, red, pink and blue. Within each of these groupings the reader will be able to identify the species via its description, date of flowering, notes, and photos. Both common and scientific names are provided. The book is attractive, with thick smooth pages that complement the crisp colored plates.

The guide is available to order

from Steve, whose e-mail is: microbe@pioneer.net. He has also placed the book at Corvallis' Grassroots Bookstore and Shonnard's Nursery. In Philomath it is carried by Java Coffee Shop, and Green Gables Farm. New venues will soon be added and you can get in touch with Steve for these. The cost of book plus postage and packaging when ordered from Steve is \$19. The cost would be around \$16 if purchased directly from him. I'm eager to hike in the Mary's Peak wildflower meadows this spring with Steve Carpenter's new and helpful guide in hand.

NPSO Items for Sale

Native Notecards. Beautiful, high-quality notecards with art by McMinnville NPSO member Terry Peasley are being sold by the Cheahmill Chapter. See the cards at <http://www.terrypeasleyart.com/pages/cards>. Eight cards are available through NPSO: trillium horizontal, trillium vertical, fawn lily, red columbine with hummingbirds, varied thrush on oak, kingfisher on red osier dogwood, Bewick's wren on Douglas spirea, and western tanagers on oak. The cost is \$3 each including envelopes, or 4 for \$10. Contact Marna Porath at P.O. Box 726, Amity, OR 97101, marna@onlinemac.com or 503-835-1042.

Booklets on Gardening with Native Plants. Emerald Chapter offers three booklets about native plants of the southern Willamette Valley. Titles are "Native Herbaceous Plants in Our Gardens," "Native Shrubs in Our Gardens," and "Native Trees in Our Gardens." \$8.00 for the set of three when ordered by mail. Individual booklets will be sold from the NGAP booth. Down-To-Earth has copies, or send a check made out to "Emerald Chapter NPSO" with "NGAP Gardening Guides" in the memo line to P.O. Box 902, Eugene OR 97440-0902. The booklet information is also offered online in pdf format at <http://www.emeraldnps.org/> Click on the tab titled "Gardening with Native Plants."

Field Guide to Shrubs of Southwest Oregon. This 80-page, pocket-sized field guide designed to help identify 56 of the most frequently-encountered shrubs in our region describes and uses photos of each species in detail, including habitat, leaves, twigs, fruit, and flowers. An easy-to-use series of dichotomous keys makes identification of unfamiliar species a snap! Also included are illustrations of common plant parts and a glossary. The authors are Janet Walker, NPSO Siskiyou chapter member, and Max Bennet, Forestry Agent with Jackson/Josephine Counties. \$7/copy. To order, make checks payable to "OSU Extension Service" and mail to Shrub Guide, Jackson County Extension, 569 Hanley Rd., Central Point, OR 97502.

Poseidon's Necklace. Don Begnoche, member of the Siskiyou chapter, has issued an Oregon field guide covering the coastal section, mile by mile, from Astoria to Brookings. Among other features, the book covers the genesis of the coastal landscape and the flora found on the dunes, headlands and montane slopes. The section covering Waldport to Florence will aid in enriching the hikes scheduled for the June 5-7 Annual NPSO Meeting in Yachats. The guide is in PDF format on a CD. There are over 500 landscape and floral photographs, including mosses, seaweeds, and lichens, as well as geologic maps and illustrations. Cost is \$19.95 + \$2.50 s/h. Mail your check to Don Begnoche, 439 Herbert St., Ashland, OR 97520.

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:

Address _____

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 *Kalmiopsis* when published.

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

New

Renewal

Student – \$12

Regular – \$18

Family – \$24

Sustaining – \$50

Patron – \$100

Life Membership – \$500

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.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Award Fund \$ _____

Augusta Rockefeller Memorial Scholarship \$ _____

Rare and Endangered Plant Fund \$ _____

Friends of the Oregon Flora Project \$ _____

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

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

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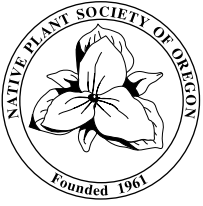
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FRIENDS OF OR FLORA PROJECT Linda Hardison..... 2082 Cordley Hall, Corvallis, OR 97331-2902; hardisol@science.oregonstate.edu; 541-737-4338
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www.oregonflora.org

Friends of the Oregon Flora Project

Remember the Oregon Flora Project this spring as the longer days entice you outside to botanize!

One exciting new resource that will be available in late April is the Photo Gallery. Over 13,000 beautiful images will help you identify plants, target places to visit, and expand your knowledge about our flora. The latest issue of the Oregon Flora Newsletter has an article by Dr. Ken Chambers detailing the scientific name changes that occurred in groups of the Asteraceae. For example, the genus *Aster* is no longer recognized. Read this article to learn the new, tongue-twisting names we now use to refer to daisies, groundsels, and goldenweeds.

We welcome receiving species lists compiled from your outings, and we can incorporate these into the Oregon Plant Atlas. Check the Atlas page on our website for guidelines on the information we need from Atlas observations contributors. The OFP website (<http://www.oregonflora.org>) is the place to access the items mentioned above. It also provides instructions on how to donate, as your financial support allows us to continue to develop these resources and make them available to everyone.