Bulletin of the Native Plant Society of Oregon Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

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Summer Intern Report

California Pitcher Plant – One of Oregon's Treasures

by Jon LeRoy

The following is the last in a series of four articles in which NPSO/Institute for Applied Ecology interns discuss their activities during the 2001 field season. Interns participated in monitoring, restoration and other research projects conducted by IAE staff throughout Oregon during the summer of 2001. The projects were focused primarily on threatened and endangered plant species in eastern Oregon, the Siskiyous, coastal areas, the Cascades, and the Willamette Valley. Internships are jointly funded by NPSO, IAE, and federal dollars. For more information on this internship opportunity, please contact IAE at kayet@peak.org or 541-753-3099 or visit www.appliedeco.org. Thanks again to NPSO for contributing to botanical education and work experience.

Tom Kaye, Institute for Applied Ecology, Corvallis, Oregon

While working for the Native Plant Society of Oregon and the Institute for Applied Ecology I had the opportunity to work with many fascinating rare and endangered plants. However, the botanical highlight of my summer came from a mysterious plant that is a regional endemic, but locally common in some places. Darlingtonia californica, the California pitcher plant or cobra lily, is widespread throughout southern Oregon and northern California. Its alien-like appearance and ability to feed on insects, not its rarity per se, are the sources of its popularity. Because of *Darlingtonia*'s appeal to the public and fascinating biology, much work has been done on the species. Even so, concrete information regarding the pollination ecology and protected status of *Darlingtonia* are still being explored.

Habitat

The monotypic genus *Darlingtonia* is the only West Coast representative of the Sarraceniaceae family. The range of the plant extends from Tillamook County, Oregon south into the Sierra Nevada of northern California. *Darlingtonia* favors open fens from sea level

to 8500 feet. Considered an indicator species of serpentine in inland areas, it prefers cool running water surrounding its roots. The species is also found in sphagnum fens arising from wet sand on coastal deflation plains (Eaton 2001). There seems to be a small misconception floating around the literature concerning what have been called "Darlingtonia bogs." In most instances, Darlingtonia californica plants do not grow in bogs as do the members of the carnivorous plant family, Droseraceae. Instead, this pitcher plant prefers the cool running waters typical of fens. Bogs are typified by a lack of constantly flowing water and a low pH, while fens are less acidic and have a steady flow of fresh, cool water—although they may appear "boggy." Other plant species common to this habitat are Port Orford cedar (Chamaecyparis lawsoniana), western white pine (Pinus monticola), mountain lady slipper (Cypripedium californicum) and western bog violet (Viola lanceolata ssp. occidentalis).

Carnivory

When it comes to carnivory,

Darlingtonia is not the only plant in its

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Native Plant Society of Oregon

World Wide Web

http://www.NPSOregon.org

E-mail Discussion List

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

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

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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.

New Members

11/12/01 - 3/7/02

At Large

Mike Hagebusch

Cheahmill

Terry Peasley James & Susan Ruggles

Corvallis

Jennifer Gervais Sally Ishikawa Mary Ann Roberts Dan Rosenberg Richard & Donna Schmitz Ann Willyard

Emerald

Ginny Alfriend
David & Evelyn Hess
Karl & Laura Hinrichs
Trevor Taylor
Patrick Thompson
Luise Walker
Nolene M. Wheeler
Lance Woolley

High Desert

Kathleen Cushman James & Deama Davis Elisabeth O. Farwell Linda B. Hanson Lisa Mickelson Ray & Kathi Seidler Anita P. Walker

Klamath Basin

Ron Larson Ann Wilkerson

Mid-Columbia

Tom Garofalo James E. Harris

Portland

Sue Alperin
Bryan Bergman
Page Birmingham
Suki Cupp
George & Alice Dock
Keith Hadley
Kathryn Hrinkevich
Scott Johnson
Pamlin Pegg

Ronee J. Poyneer Gradey Proctor Trish Reynolds Nancy D. Robinson Maggie Rogers Leslie Rossmell Christina Rowe Audra Ruyle Frans Scholin Dresden Skees Mandy Tu Erwin Weichel

Siskiyou

Michael & Judith Anzalone Laurie Grow Meredith Lowry Becky Richards

Umpqua Valley

Joey White

Willamette Valley

Duane Bays Bonnie Laux Pam Reynolds Virginia Wilcox



TANYA HARVEY

The seldom-seen flowers of Goldthread (Coptis laciniata) prove it isn't a fern though its woodland groundcovering foliage can fool the casual observer. It is actually a member of the buttercup family, Ranunculaceae.

NPSO CALENDAR

State

June 7-9, Friday to Sunday

Annual Meeting: Hosted by the Siskiyou Chapter at the Green Springs Inn on Highway 66 twenty miles east of Ashland. See March *Bulletin* for registration materials and information.

June 9, Sunday

Board Meeting: Will take place at the Annual Meeting.

Blue Mountain

May 11, Saturday, 9:00 am Field Trip: Yellowjacket Road to

Albee. A great variety of flowers with a wide variation in elevation and habitat, going south from Pilot Rock to near Ukiah. We will meet to carpool at the NE corner of the Safeway parking lot in Pendleton. Contact Bruce Barnes for more information, 541-276-5547.

Cheahmill

May 5, Sunday, 10:00 am

Field Trip: Airport Park, McMinn**ville.** This little known park has wide botanical diversity. It's an excellent place to see spring native plants. The forest canopy of Oregon Oak, Oregon White Ash, and some Douglas Fir will give us a wide variety of spring flowers to see. We should be in time to see Erythronium oregonum and several species of Trilliums in bloom. A small creek that runs through the park presents us with wetland plants to explore. The walk is easy on wide trails. For more information, meeting place, and directions to the park, call Marilynn Karbonski at 503-852-7230.

May 18, Saturday, 11:00-4:00 pm Event: Spring Wildflower Show and Native Plant Sale. Cheahmill Chapter will host its 3rd Annual Wildflower Show and a Native Plant Sale at the McMinnville Public Library located at 225 N. Adams Street. Local Artists Marg Johansen, Marilynn Karbonski and Sepha Nisbet have donated works featuring native plants for a silent auction which will be finalized at 3:00 pm. Tours of the Native Plant Garden at the Library will be available. For more info call Sepha at 503-472-0270 or Marilynn at 503-852-7230.

May 23, Thursday, 7:00 pm Meeting: Pollinator Conservation.

Matthew Shepherd, Director of the Xerces Society's Pollinator Program, will give a slide presentation and talk on native bees. Matthew's presentation will focus on the amazing diversity

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.

within this very important pollinator group. He will also share some simple and practical ways that we can integrate bee conservation into the stewardship of our gardens and natural areas. Carnegie Room McMinnville Public Library, 225 N. Adams St., McMinnville. For more information contact Susan Williams 503-538-1865 or helgesusan@attbi.com.

Corvallis

May 13, Monday, 7:30 pm

Meeting: In Search of the World's Oldest Trees. A slide show and talk on the bristlecone pine trees of California's White Mountains by Charlene Simpson, Rhoda Love and Veva Stansell. Meet at the Avery House, Avery Park, Corvallis. For more info please contact Esther McEvoy at 541-754-0893.

June 1, Saturday, 1:00 pm

Field Trip: *Delphinium pavonaceum* Population Survey in Benton County with Gaylee Goodrich. We will check local sites of populations. Meet at 1:00 pm at the parking lot across from the Monroe Beanery. Bring raingear, rain boots, water and a snack. We will return late afternoon. For more info contact Gaylee at 541-753-93227.

June 3, Monday, 5:00 pm Work Party and Spring Potluck.

Come at 5:00 pm and help clean up the native plant garden around the Avery House. Bring a dish to share and we will break for a potluck dinner around 7:00 pm. Bring gloves, a shovel, and a bucket. For more information please contact Esther at 541-754-0893.

Emerald

May 4, Saturday, 9:00 am
Field Trip: Wildflower Hike at the
Coast led by Bruce Newhouse. Meet at
South Eugene High School at 9:00 am.
For further info call 541-343-2364.

May 12, Sunday, 11:00 am
Field Trip: Mother's Day Native
Plant Garden Tour. We will visit the
Eugene Garden of Alan Levine and Annette Ooyevaar. This is a structured,
ornamental garden with an emphasis
on the integration of native wildflowers
and shrubs. Meet at 11:00 am at South
Eugene High School for a one and a
half hour field trip. For more information call Holde Fink at 541-344-5317.

May 13, Monday, 7:30 pm
Meeting: The Legacy Grows. More
Lewis & Clark! The theme of the upcoming May 19th Wildflower Festival
is "Plants of the L & C Expedition".
Sally Claggett and Jolene Krawczak,
who researched the Lewis and Clark
Expedition for the Oregonian, will
share their own discoveries with us.
Note: Meeting is on the 2nd Monday
(not 4th), this month only. Rm. 117,
Science Building, LCC main campus.

May 19, Sunday, 10:00 - 4:00 pm Event: Mt. Pisgah Arboretum Wildflower Festival. Plants of the Lewis & Clark Expedition. Wildflower Show, plant sale, interpretive nature walks, information and food booths, and much more. See p. 54 for more information.

June 1, Saturday, 9:00 am
Field Trip: Tour of Endangered Oak
Savannahs of Eugene area with
Lynda Boyer. Lynda is a botanist
doing survey work for the BLM to locate seed sources for restoration work.
Meet at South Eugene High School at
9:00 am and return by 2:30 pm. For
further information call Dave Predeek
at 541-345-5531.

June 15, Saturday, 9:00 am
Field Trip: Tire Mountain, near Westfir. Easy 4-mile round-trip hike through
old growth forest and sloping flowerfilled meadows along the side of a ridge.
Meet at South Eugene High School at
9:00 am or at the Demeter's Corner
Store and Café parking lot in Dexter
(just off Highway 58) at 9:30 am. For
more information call Tanya Harvey,
541-937-1401. Hike is cosponsored by
the Emerald Chapter of the North
American Rock Garden Society.

High Desert

For information on the High Desert Chapter, call Stu Garrett at 541-389-6981.

Klamath Basin

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

Mid-Columbia

May 1, Wednesday, 7:30 pm
Meeting: Butterfly-Plant Interactions. Dr. William Neill, author of the recently-published book, *The Guide to Butterflies of Oregon and Washington*, will tell us the fascinating story of the life of butterflies, and how some caterpillars depend very specifically on certain plant species. 7:30 pm at the Columbia Gorge Discovery Center, exit 82 off I-84 in The Dalles.

May 18, Saturday

Field Trip: Stacker Butte. Imagine a sea of bunchgrasses waving in the gentle breeze, a chorus of prairie songbirds, and a multitude of wildflowers blooming under the steady gaze of the sun. See showy phlox, Douglas's buckwheat, balsamroot, and lupine in this hike along the crest of the Columbia Hills. We will be driving to near the summit of the butte and will be restricted to just a few autos. Approximate elevation gain of 400 feet and the possibility of 3-4 miles of off-road rambling. The trip is limited to 12 people. Call Barbara Robinson at 541-296-5334 to reserve your place on this trip and to get carpooling location and time.

June 5, Wednesday, 7:30pm
Meeting: Fire Use and Restoration in Prairie Plant Communities. Kathy Pendergrass of the Fish and Wildlife Service will give a presentation about the history of Willamette Valley vegetation, including Native American burning practices, plant responses to fire and current restoration attempts in prairie plant communities. Columbia Gorge Discovery Center, exit 82 off I-84 in The Dalles and follow the signs.

North Coast

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

Portland

May 4, Saturday, 8:00 am Field Trip: East End of the Columbia Gorge. Total hike distance, 2 miles; total elevation gain 600'. We will explore two areas of National Forest grassland on the Washington side of the Columbia Gorge, finding numerous colorful species not seen west of The Dalles, such as Erigeron poliospermus, Astragalus succumbens, Phlox longifolia, Penstemon acuminatus, and Lomatium laevigatum. Meet at the SE corner of Gateway Park & Ride at 8:00 am to carpool. For more info, call the leader, Russ Jolley, at 503-286-2350, or Beth Magnus at 503-226-7919.

May 11, Saturday, 8:30 am Field Trip: Dog Mountain. Join us for this steep but popular hike for scenic vistas and a range of early- to midspring flowers in a multitude of habitats from forest to meadow and rock garden. Leave at 8:30 am from Gateway/NE 99th Ave Park and Ride, southeast corner of parking lot. Dress for all possibilities of weather and wear good shoes! 110 miles round trip driving. Six miles round trip, elevation gain of 2900 ft. For more information call Paul Slichter at 503-661-3292.

May 14, Tuesday, 7:00 pm
Meeting: What's Eating Lupines?
John Bishop of Washington State University, Vancouver will tell us about the ecology of plants colonizing Mount St.
Helens' Pumice Plains. Why have lupines taken so long to colonize? Why do caterpillars only like to eat some lupines and not others. Ever noticed lupines getting munched out on a hike? John has studied Lupines and their insect herbivores on the Pumice Plains for the past 12 years and will describe scientific efforts to answer

these questions. Find out what would

be destroyed by the proposed road

through the heart of the monument. 7:00 pm, Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St., in Portland. For more information contact Dee White, 503-775-2909.

May 18, Saturday, 9:30 am Workshop: Wildflower ID Class

taught by Greg Stone from the Portland chapter. 9:30 am at the Hoyt Arboretum. This introductory class focuses on the characteristics of the common plant families found in the Pacific Northwest. Cost is \$10. We'll look at live plants, so bring a hand lens if you have one. A short walk is included. For more info call Greg at 503-233-4761.

May 18, Saturday

Field Trip: Stacker Butte. See Mid-Columbia chapter entry.

June 1, Saturday, 8:30 am
Field Trip: North Ridge of Augsberger Mountain. We'll join trip leader
Russ Jolley to explore the back side of
Augsberger Mountain. This hike will
be 3 miles round trip with a 1200-foot
elevation gain. We'll be looking for
Hydrophyllum fendleri along with many
others. Leave 8:30 am from Gateway
NE 99th Avenue Park & Ride, southeast corner of parking lot. For more
info, call Russ Jolley, 503-286-2350 or
Elisabeth Magnus, 503-226-7919.

Siskiyou

May 4, Saturday, 9:00 am
Field Trip: Illinois River Canyon.

Meet at 9:00 am, right (south) side of the Selma Market parking lot in Selma, 20 miles south of Grants Pass on Hwy 199. Leader: Don Heinze 541-955-7247. Along with many other flowers, we will see the most accessible stand of *Kalmiopsis* (namesake of the Kalmiopsis Wilderness Area) and a population of western Sopora, both rare plants that were originally found by and named for one of Oregon's best known pioneer botanists, Lilla Leach. Easy 2-3 mile hike on a good trail, but the slope from the trail to the Illinois River is high and precipitous. Recommended reading:

Don Begnoche, *Siskiyou Sundays* pp. 91-100; Kirkpatrick, Holzwarth, and Mullins, *The Botanist and Her Muleskinner* pp. 63-103.

May 11, Saturday, 9:00 am

Field Trip: Island in Serpentine—a granitic dike through serpentine.

Meet at 9:00 am, Illinois Valley Visitor Information Center, 201 Caves Hwy, Cave Junction. Leader: Mike Anderson (call Don Heinze 541-955-7247 for information.) A spectacular example of geobotany (how geology affects plant life) on the west side of the Illinois Val-

ley. In the middle of the sparse flora on serpentine soil is a granite dike that has intruded up through serpentine and formed an island of lush granite soil plants. At least 10 are sensitive plant species. Moderate 3-mile hike.

May 12, Sunday, 9:00 am
Field Trip: Workshop on Wildland
Grasses. Meet at 9:00 am, left (east)
side of Fred Meyer parking lot on the
Parkway in Grants Pass. Reservations
required. Alternate meeting place:
9:45 am, north side parking lot of Fish
Hatchery Park. Leader: Don Heinze
541-955-7247. Learn to key and identify common grasses of southwest

Oregon; find out natural history and historical facts about grasses. Bring pencil, paper, clipboard, hand lens, and digging tool. Easy 1-mile hike.

May 16, Thursday, 7:30 pm
Meeting: Rare Plants of the Serpentine Fens, a slide show presentation by Tyler Duvall and Robert Sweeney.
Learn about the unique flora of the serpentine fens of southern Oregon and northern California. Tyler and Rob will discuss their research on the ecology and habitat requirements of five rare species found only in this unique environment. Room 171 of SOU Science Building in Ashland. For more info call Molly Sullivan at 541-770-7933.

May 18, Saturday, 10:00 am Field Trip: Quartz Mountain Fire.

Meet 10:00 am Winco Foods Parking Lot, near Liberty Bank on Barnett Rd in South Medford, west off exit 27 from I-5. Leader Barbara Mumblo 541-899-3855. The Quartz Mountain Fire started from a lightning strike in August 2001 and burned 6000 acres of private, BLM, and Forest Service Land. This is a driving trip through the burned area with stops and easy hikes. We will see native plants re-establishing



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A spring carpet of Baby Blue-eyes, Nemophila menziesii, resembles a late dusting of snow. In spite of its common name, in Oregon this low-growing annual is white with a hint of blue only on the back of the petals. The California variety is the blue one seen in seed packet mixes.

themselves, restoration projects begun since the fire, private salvage operations and will hear about proposals for salvage and further restoration. We may visit a *Cimicifuga* (tall bugbane) site that the fire burned through. The Oregon Natural Heritage Program considers this species in danger of extinction.

May 25, Saturday, 9:00 am
Field Trip: Scents of Serpentine—
Rough and Ready Creek, Mud
Springs Trail. Meet at 9:00 am, Illinois
Valley Visitor Information Center, 201
Caves Hwy, Cave Junction. Leader:
Mike Anderson (call Don Heinze 541955-7247 for information.) A botanical
hike with a twist: serpentine habitat
plants with great scents—from chocolate to lemon; from vanilla to nutmeg;
from celery to mint, and from the scent
of a Japanese temple to the scent of an
Egyptian tomb. We'll sample them all.
Bring your noses! Easy 3-mile hike.

Umpqua Valley

May 11, Saturday, 8:00 am
Field Trip: King Mountain to see
Fritillaria recurva and other spring
flowers. Meet/car pool at BLM parking
lot, 777 Garden Valley Rd., Roseburg,
prior to 8:00 am departure. For more
info call Jack Hausotter, 541-863-5347.

May 13, Monday, 7:00 pm Meeting: Morels and Early Spring Mushrooms. Jack Hausotter will present his usual vivid photographic slides and anecdotes and comment on spring mushrooms. Ford Community Room, Douglas County Library, Roseburg. For more information contact Jack Hausotter, 541-863-5347.

Willamette Valley

May 20, Monday, 7:00pm
Meeting: Willamette Valley Fire Use & Restoration Techniques. Kathy
Pendergrass, a Botanist with the U.S.
Fish & Wildlife Service, will give a slide presentation and talk covering historical Willamette Valley vegetation patterns; Native American burning

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties representing 39 percent of the 4,460 plants currently recognized by the Oregon Flora Project at Oregon State University. It also includes a color map of Lane County's five major ecoregions; and information about rare and endangered species, noxious weeds, and escaped cultivated plants. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send \$15 payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

Camas Tee Shirt Now Available from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilynn Karbonski. Short sleeve, high quality, **\$15 plus shipping**. For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

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

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muirlike western character. Included: 56 pictures,133 notes, chronology, list of plants named for Henderson. **Special:** First 25 orders in 2002 receive FREE 9-page annotated bibliography. **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.

practices; plant responses to fire; and a variety of issues associated with current restoration practices in prairie plant communities. Monthly meetings take place in Room 225, First United Methodist Church, 600 State St. in Salem. Please enter through the door marked "Church Office". For more in-

formation, call Karl Anderson at 503-315-7329.

William Cusick

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

OTHER EVENTS

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 Kris at 503-636-4112x22 or check out their website at http://www.berrybot.org.

May 4, Saturday, 10 am-3 pm
The Berry Botanic Garden's 25th
Anniversary Party. You're invited to
join us as we celebrate our 25th
anniversary. Take a tour, learn about
our conservation program, have a piece
of birthday cake or just party on the
porch. This should be fun! Free!

May 11, Saturday

Celebrating Oregon's Wildflowers at the Oregon Garden. This is a co-sponsored event between BBG, The Oregon Garden and the Bureau of Land Management. Free with admission to the OG will be a plant sale, educational fair, kids activities, and tours of the garden. For \$10 each or \$30 for all you may pre-register for up to four different wildflower seminars. Call 503-636-4112 for more information.

May 16, Thursday, 10 am-12 pm Shady Consolation-The Beauty of

Ferns. Just because your garden may not always have the sun, you don't have to sacrifice garden beauty. Learn about the sex lives and plumbing of ferns.

Wild Ones 2002 National Conference

Low-Maintenance Landscaping with Native Plants July 11-14, 2002

Fawcett Center, 2400 Olentangy River Road, Columbus, Ohio

For home gardeners and landscapers of corporate and public places. Keynote address: Andy Wasowski, "The Landscaping Revolution." \$40-50. Detailed program information, registration form, and membership applications: www.for-wild.org, dilley.2@osu.edu, 614-939-9273.

Then, benefit from the years of experience of Russell Graham, Purveyor of Plants. Gain a greater understanding of fern culture, hardiness and sun-tolerance, and get to know favorite ferns for the Pacific Northwest garden. \$15.

May 19, Sunday, 9am-12pm An Introduction to Permaculture.

Gardeners who are interested in caring for the earth and interacting with the

environment in mutually beneficial ways will be interested in this class. More than vegetable gardening, permaculture is about land stewardship in general. Gain a deeper understanding of how you fit into the landscape and introduce yourself to the concepts of ecological patterns, rain and wastewater management, building the soil, edible landscaping and eco-building. \$15.

Mount St. Helens Institute Offers Botany Seminars This Summer at the Mountain

The Mount St. Helens Institute has just published its Summer 2002 catalogue of outdoor seminars on its web site, www.mhsinstitute.org. These nature-based classes make for an excellent day trip or weekend camp-out for people of all ages. Taught by geologists, biologists and other experts, the field seminars take place at Mount St. Helens, Mount Rainier, and Mount Hood, and focus on such topics as Cascade volcanism, wildflowers of the Northwest, astronomy, and how plants and animals returned to Mount St. Helens' blast zone.

Seminar titles and dates include:

A Tale of Two Forests: Saturday, June 15

Mount St. Helens Lava Flows: Saturday, June 22 and Friday, August 16

Hiking to Harmony: Saturday, June 29

Catastrophe and Recovery of the Blast Zone: Saturday, July 20

The Pumice Plain: Sunday, July 21 Blast Zone Wildflowers: Saturday, July 27 Wetland Plants of Silver Lake: Sunday, July 28

Geology in the Heart of the Blast Zone: Saturday, August 3

Three Days In Paradise (on Mount Hood): Friday, August 9 - August 11

Loowit's Universe: Monday, August 12 The Perseid Showers: Monday, August 12 Ashes to Ashes: Saturday, August 17

Geology on High (Crater Rim Climb): August 18-19 and August 25-26

Emmons Glacier Geologic Odyssey: Sunday, September 7

Now in its third year, the Mount St. Helens Institute is devoted to helping people learn more about the Pacific Northwest's Cascade volcanoes. Its expert faculty members lead participants on a wide range of hikes, climbs, and other back-country adventures. As a nonprofit organization, the institute also offers hands-on science education to teachers, school children, and disadvantaged communities. The institute's mission is to awaken, in people of all ages, a deepened understanding and appreciation of the natural processes, ecosystems and cultural heritage of the Northwest's volcanic landscapes. To sign up and learn more, visit the Institute's web site at www.mhsinstitute.org, or call 360-891-5095.

Mt. Pisgah Arboretum Wildflower Festival Plants of the Lewis & Clark Expedition

by Gail Baker, Assistant Professor of Biology, Lane Community College

May 19, Sunday, Eugene, Oregon, 10am-4pm

lmost two hundred years ago the Amen of the Corps of Discovery were making their way west led by Meriwether Lewis and William Clark. About 117 botanical specimens collected by Lewis, the expedition's botanist, have survived and are represented by extant herbarium material. This year our Festival plant display will showcase the plants that Lewis first brought to the attention of the botanical world. The Festival poster includes two of those plants, Erythronium grandiflorum and Fritillaria affinis. Both of these beautiful wildflowers are members of the lily family and both Fritillarias and Erythroniums (E. oregonum) can be seen along the Arboretum's trails.

Medicinal & Poisonous Plants and Ethnobotanical Information about the Lewis & Clark Plants

The special display of medicinal and poisonous plants has expanded in scope over the last few years and now includes samples of products made from plants as well more detailed information about the chemistry and uses of the plants.

Guided Tours of the Lewis & Clark Plant Display Table

Guided nature walks have always been part of the Festival activities. This year we will have guided tours of the display itself. The organization of the display will be described and your guide will regale you with plant stories related to some of the 400 plants on display, especially those on the Lewis & Clark Plant display table.

Popular Continuing Attractions

As always there will be a large plant sale, interpretive nature walks, information and food booths, children's activities and musical entertainment. Join the Fun! Learn about wild plants and support the Arboretum. The Wildflower Festival is the premier wildflower education event in Lane County



Erythronium grandiflorum and Fritillaria affinis are highlighted in the illustration for this year's Mount Pisgah Arboretum Wildflower Festival Poster

and is the result of a cooperative effort between Arboretum staff and volunteers, members of the Native Plant Society of Oregon, and faculty and students at Lane Community College. It is also a fund raising event for Mount Pisgah Arboretum which depends on your support. Please consider lending a hand this year and also bringing family and friends to enjoy the event.

Contacts

If you would like to help with pre-show set up at the Arboretum on Friday or Saturday you may contact:

Tom Locasio, site manager, 541-741-4110, pisgah4@aol.com.

The majority of the plant display is set up Saturday between 9am and 3pm or early Sunday morning before the opening of the show at 10am.

Volunteers for other aspects of the Festival are encouraged to contact Jeff Eaton, Office Manager, Mt. Pisgah Arboretum, 541-747-3817, mtpisgah@efn.org

Gail Baker at LCC, 541-463-5085, bakerg@lanecc.edu

Michael Hartman, NPSO, clickbeetle@earthlink.net

Admission to the Wildflower Festival will be \$3 for an individual and \$6 for a family. Directions to Mt. Pisgah can be found on the Arboretum's web site at www.efn.org/~mtpisgah.

Other Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, Call 541-747-1504 for information or to register.

May 4, Saturday, 10 am-Noon Medicinal Herbs Slide show & Walk. Explore the world of healing plants with naturopathic physician Jan Gagnon. A slide show and herbal walk through the Arboretum will highlight the various species and uses of medicinal herbs. Fee: \$15. Pre-registration required.

May 5, Saturday, 1-5 pm Wildflower Photography Workshop.

Discover the secrets of taking great close-up pictures of flowers with professional photographer and LCC instructor David Stone. Bring your 35mm camera, a roll of slide film, and any close-up equipment you have. Fee: \$35. Pre-registration required.

May 12, Sunday, 10 am - 3 pm Mother's Day Celebration. Give Mom the gift of flowers and family in a beautiful outdoor setting. Join us for guided wildflower walks (on the hour), make or purchase a corsage, enjoy bake sale goodies, and enjoy the fresh air. Donations gladly accepted for activities.

May 25, Saturday, 1-4pm
Field Sketching Workshop. Join natural science illustrator Kris Kirkeby in a field sketching class at the Arboretum.
Explore the use of pen & ink in the sketching experience and capture the essence of leafy plants or wildflowers along the trails. Fee: \$20. Pre-registra-

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tion required.

Oregon Wild Campaign Update

by Jan Wilson

Because they're often protected from logging, mining, grazing, and vehicle traffic, wilderness areas on the federal public lands provide some of the best remaining habitat for native plant species. That's why the Emerald Chapter of the Native Plant Society of Oregon has endorsed the Oregon Wild campaign, which seeks to obtain Wilderness designation for over four and a half million acres of forested roadless lands in Oregon.

With Senator Ron Wyden chairing the Senate Forests and Public Lands Management Subcommittee of the Energy and Natural Resources Committee, and with all the federal representatives looking to provide some "pork" to Oregon before the November election, this summer affords a narrow window of opportunity to get serious consideration of an Oregon wilderness bill in both houses. As a "first step," Oregon Wild 2002 seeks wilderness designation for about 400,000 of particularly threatened areas, including these:

Mt. Hebo roadless area, over 11,200 acres of refuge in the heavily logged Coast Range, whose subalpine meadows are home to the rare Oregon Silverspot butterfly and its host plant, the early blue violet;

Rancherie Creek roadless area, over 6200 acres in the Siskiyou National Forest, adjacent to the Kalmiopsis Wilderness, with all the incredible biodiversity characteristic of the Siskiyou region, including the Port Orford cedars and the Jeffrey Pine savannahs threatened by root-rot-spreading offroad vehicles;

Donegan Creek roadless area, over 6300 acres of low elevation forest in the Umpqua National Forest, including rock meadows and wet meadows harboring striking expanses of grasses, and the Donegan Prairie, home to numerous rare and sensitive plant species;

Lake Fork roadless area, over 32,000 acres in the Wallowa Whitman National Forest, providing a critical corridor between Hells Canyon and the Wallowa Mountains of the Eagle Cap Wilderness, and home to diverse forests of fir, larch, pine, and aspen, as well as hillsides carpeted in wildflowers;

Myrtle-Silvies roadless area, over 15,000 acres in the Malheur National Forest, near Burns, encompassing remote free-flowing rivers and huge Ponderosa Pine, Mountain Mahogany, and Douglas Fir, in an undisturbed ecosystem now being targeted for a timber sale.

At an April 3rd public forum in Portland, hosted by Rep. Earl Blumenauer and also attended by Rep. David Wu, hundreds of people, Republicans, Democrats, and Greens alike, showed up to testify about the special nature of their favorite wild places. Oregon, with



May 18-19, 10am-4pm

Audubon Sale

More than 150 different kinds of native plants are among the many reasons to attend the Audubon Society of Portland's Sixth Annual Native Plant Sale, 5151 NW Cornell Road.

Dulcy Mahar is another. She speaks Sunday, May 19, 11am. Mahar, a columnist for *The Oregonian's* Homes & Gardens magazine will tell listeners how to use native plants in their garden designs to attract everything from birds to butterflies. Her talk is free. The sale is under cover in case of rain. Native plant experts are on hand to answer questions. Proceeds go to maintain Aububon's nature sanctuary.

For details, contact Mitch Luckett at 503-292-6855x106 or visit the Audubon website at www.audubon-portland.org.



Myrtle-Silvies roadless area

only 3.6% of its land protected as wilderness, is far behind its neighbors, California (13.7%) and Washington (10%). With this kind of clear non-partisan support, though, it should be easy for the Oregon delegation to help us start catching up this year and protect these special places for all future generations of all plant and animal species!

If you would like to know more about the Oregon Wild Campaign or would like to know how you can help, contact the ONRC at 503-283-6343 or check out their website at www.onrc.org.

Advertising Manager Still Needed for Kalmiopsis

Now that *Kalmiopsis* is back on a regular annual schedule, NPSO would like to sell advertising in its pages to help offset some of the journal costs. The Advertising Manager will be a volunteer role, which will entail working with co-editors Cindy Roché and Linda Vorobik and the NPSO state Treasurer Candice Guth to develop standards and prices, then soliciting ads from businesses such as native plant nurseries and bookstores that feature botany and natural history merchandise. Most of these contacts can be made by mail or e-mail.

If you would like to try your creative skills in public relations and sales, here is a great opportunity to help NPSO. For more information or to volunteer, please contact Cindy Roché at crupinaqueen@charter.net.

Highlights of the State Board Meeting, April 6th in The Dalles

by Kelli Van Norman, Secretary

Thank you to the Mid-Columbia Chapter for hosting the quarterly State Board Meeting at the Discovery Center in The Dalles. The next Board Meeting will be June 9th during the Annual Meeting near Ashland.

The NPSO Field Research Grants Committee (FRGC) chair, Dan Luoma, reported that three proposals have been fully funded and two more will be partially funded by the state NPSO. The FRGC is asking individual chapters to help fund several of the proposals. The Board unanimously passed a motion to fund a cost share/USFS match from the Fish and Wildlife Foundation for a survey of serpentine fens and associated species for \$750 to Maria Ulloa.

The Membership Committee reported that there are 872 NPSO memberships. Of concern are the 238 memberships that have lapsed this year. It was recommended that chapter presidents send out fliers to people whose memberships have lapsed, encouraging them to renew.

As chairperson of the NPSO Education Committee, Jerry Igo has been very active this spring. He is publicizing the role of native plants in the BiCentennial Commemoration of the Lewis & Clark Expedition. Jerry has quite a few presentations planned this spring for NPSO chapters and other organizations.

Dick Brainerd and Tom Kaye have volunteered to co-chair a newly resurrected NPSO Rare & Endangered Plants Committee. The Board has asked them to create a list of objectives and a process to achieve those objectives to be presented at the next Board meeting. The Board would like it made clearer to NPSO members and others that NPSO works on conservation and not just field trips.

In new business, the Board voted to endorse the National Public Lands Grazing Campaign, which hopes to introduce to Congress a program for the Federal Government to buyout grazing permits from ranchers and permanently close grazing allotments. The Board also voted to endorse the Lewis & Clark Landscapes Project whose objective is to encourage the US Forest Service to purchase approximately 4000 acres of critical lands within the Columbia River Gorge. It was decided to gather further information about a lawsuit that several environmental groups have requested NPSO endorse. They are suing the US Fish & Wildlife Service to list critical habitat for several Willamette Valley species including *Lomatium bradshawii* and Fender's blue butterfly.

The NPSO chapters are gearing up

for a busy spring of meetings, educational programs, field trips, and conservation committee work. Several chapters noted conservation and restoration activities that they have been involved with including Emerald Chapter's participation in the Lane County Environmental Coalition, the Siskiyou Chapter's letters commenting on the Mt. Ashland Ski Area Expansion DEIS, and the Portland Chapter's work pulling English ivy and planting trees. The Mid-Columbia Chapter recently won an award of recognition for their recent restoration efforts in the Mosier area.

Friends of the Oregon Flora Project

Did you know that there are two ways to contribute to the Friends of the Oregon Flora Project? Both accomplish the same valuable objective of supporting work on Oregon's new botanical references. The Oregon Flora Project is based at Oregon State University; therefore contributions to the project are channeled through the OSU Foundation. One way individuals can donate is to write their check directly to OSU Foundation (noting it is for the Flora Project), and the funds, minus 5% administrative fees, are credited to the Oregon Flora Project. A second way to contribute is through the Friends of the Oregon Flora Project. As a committee of the NPSO, donors using this method would write their check to NPSO (with "Friends of the Oregon Flora Project" on the memo line) and mail it to the Friends P.O. box in Corvallis. These checks are deposited with NPSO, who then transfers 100% of the funds as a quarterly check to the OSU Foundation. The Foundation's administrative fees are withheld, and the money is added to the Flora Project account at OSU.

Why bother with the Friends when all the money ends up at the same place?? Contributions made through the NPSO allow the donor to remain anonymous to the OSU Foundation and their own fundraising agendas. Giving through the Friends expresses your concordance with NPSO's sponsorship of the Oregon Flora Project. Finally, a strong Friends membership strengthens our credibility as we apply to private foundations and organizations for support—in the past two years we have been awarded over \$17,000 in grants.



www.oregonflora.org

We hope that your decision to support the Oregon Flora Project is made, and the only question remaining is which method you will use!

For information on becoming a Friend, or to make a contribution to the Oregon Flora Project, contact Linda Hardison at:

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

California Pitcher Plant

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habitat that harvests insects for nitrogen. Horned butterwort (Pinguicula vulgaris, Lentibulariaceae) captures small insects on its sticky leaves. The unique ability to utilize nutrients obtained from insects has gained carnivorous plant families much fame. In the case of Darlingtonia, insects are attracted to the hooded pitchers (actually tubular leaves) by nectar glands found inside and outside their openings. The more numerous nectar glands in the inside of the hood, coupled with the small "windows" inside the hood called fenestrations, aid in confusing tired captives who may



The hooded tops of Darlingtonia leaves have an opening on the underside to allow insects to enter. These insects are attracted by nectar glands, such as those on the mustache-shaped appendages below the opening. Once inside the hood, the insects are confused by the tiny "windows" in the dome, and are forced to the bottom of the leaf by downward pointing hairs where they drown in a pool of water and are reduced to plant-available nutrients by bacteria and insect larvae.

(mistakenly) sense these translucent windows as a way out. Once inside, the confused insects get worn out. These captives are then forced toward the base of the leaf by downward pointing hairs that line the inside walls of the leaf. Once *Darlingtonia*'s prey reach the bottom of a leaf, they drown in water collected there and decomposition begins. *Darlingtonia* does not secrete enzymes for the breakdown of its prey. Instead, the plant relies on bacteria and insect larvae living in the leaf base to make nutrients available to the plant.

The leaves of *Darlingtonia*, which make this insectivory possible, also have an interesting method of assuring their ability to gather prey. Juvenile leaves twist as they grow from the basal rosette. The adult leaves of Darlingtonia are twisted 90 to 180 degrees at maturity, assuring that another leaf will not grow in a manner that blocks the opening of a pre-existing mature leaf. The water in which the plant's victims drown is another unique function of the leaf. No rain water is let in due to coverage by the hooded leaf. Instead water is actually secreted by the leaf. This water actually increases in volume as more insects fall into it.

Pollination

As far as D. californica is concerned, the game of pollination has been a long-standing mystery. Data gathered by multiple studies indicate that D. californica has few insect visitors during the day, and to my knowledge there have been few investigations into possible nocturnal pollinators. While there seem to be very few insects visiting D. californica that could serve as consistently successful pollinators, there are a number of different arachnid species that occupy its flowers. Arachnids are not what usually comes to mind when one thinks of pollination. Nyoka and Ferguson (1996), however, indicate that this may be the case for Darlingtonia. Their study found only eight individual insects representing four different species carrying pollen and visiting inside the flowers. However, the study found 79 arachnids representing fourteen different species carrying pollen and living in the flowers. In



The flower of the Darlingtonia plant is a maroon affair surrounded by yellow bracts.

Spiders and fungus gnats have been implicated in its pollination.

fact, they found that virtually all the mature flowers in their plot contained at least one arachnid occupant. Thus, it appears that spiders could have a key role in the sexual reproduction of *Darlingtonia californica*. Work by Dr. Mike Mesler at Humboldt State University in Arcada California indicates that fungus gnats may also be responsible for pollination in this species.

Conservation

Because of its unusual appearance and fascinating biology, Darlingtonia californica is in demand by the public as a conversation piece, specimen plant, and valuable component of a water garden. It is not state or federally listed as endangered, but due to its limited range and very specific habitat requirements, it remains a species of concern in Oregon and California. Darlingtonia is protected in Oregon under the state's "Wildflower Act." This piece of legislation states that the "willful or negligent cutting, digging, trimming, picking, mutilating, or in any manner injuring or subsequently selling, transporting, or offering for sale a plant, flower, shrub, bush, fruit, or other vegetation growing on the right of way of a public highway, upon any continued on page 58

California Pitcher Plant

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public lands, or upon any privately owned lands is prohibited without the written permission of the owner or authorized agent of the owner" (Oregon Administrative Rule 603-73 et seq., 1995). Exceptions to this law include any public facilities workers performing work on roadways, private land owners working on their own property, or any person controlling a plant species which is declared a noxious weed in the state of Oregon.

Legal jargon can often times be difficult for lay-people like myself to decipher. Until I re-read the administrative rules regarding the Wildflower Act, I was under the impression that the collection of *Darlingtonia* was completely illegal. While it is illegal to collect or sell any plants found on public land in Oregon, plant materials that were gathered prior to the species being included in the Wildflower Act are exempt from this law. Also exempt are the offspring from such prior collected plants including seeds, clones and hybrid cultivars. This provision makes

possible the continued sale of many protected species, including threatened and endangered plants, as long as the parent material for cultivated plants was collected before their inclusion under the Wildflower Act.

In an attempt to discourage further collection of native and endemic plants such as Darlingtonia, a series of guidelines have been established under the Oregon's Wildflower Act to monitor its commercial propagation and sale. No person may sell or process Darlingtonia in this state without a commercial license issued by the Oregon Department of Agriculture. In order for a business to acquire such a permit, they must provide a complete inventory of any listed plants they possess including any seeds or cuttings and where the original plant materials were collected to the best of their knowledge.

I am hopeful that botanists and commercial nurseries alike will respect the Oregon Wildflower Act and continue to use horticultural resources for the acquisition of *Darlingtonia californica*, thus avoiding over-collection of wild plant materials of this amazing botanical treasure.

I would like to thank Tom Kaye and Keli Kuykendall for a very educational summer and also Rhoda Love and the NPSO for making my experience possible.

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Eaton, J. 2001. Passive aggressors. *Mountains and Rivers* 1:7-8.

Nyoka and Ferguson. 1999. Pollinators of *Darlingtonia californica* Torr., the California pitcher plant. *Natural Areas Journal* 19:386-391.

Oregon Administrative Rules, Chapter 603, Division 73, 1995. Oregon Department of Agriculture, Salem, Oregon.



Darlingtonia californica leaves are tubular with dome-shaped hoods at the top.

Fun & Educational Programs by ESO

Want to learn about eco-friendly living, gardening with native plants, or where to hike in Oregon? Let the Earth Share of Oregon (ESO) share this information and more with you and your co-workers through the Brown Bag Lunch.

ESO offers an array of 30 minute and 1 hour on-site presentations on a diversity of topics such as how to save a river, throw a waste-free party, and experience the wonders of Oregon's high desert. Experts from ESO's 72 non-profit member organizations including NPSO will come to your workplace with audiovisual presentations and workshops to share a wealth of knowledge on conservation issues over your lunch hour.

Sample topics include:

"Oregon's Last Great Places"

"Wetlands Restoration Steps to Success"

"Habitat Restoration at Gravel Mines Along the Willamette River?"

"Oregon's High Desert: A Land of Wild Majesty?"

"The Columbia River Gorge: Natural Wonder, National Treasure"

"Design and Conserve a Greenbelt in Your Community"

For a complete list of Brown Bag Lunch topics, check ESO's website at www.efo.org or www.earthshare-oregon.org. To learn more about ESO's educational programs, please call ESO at 503-223-9015 or via the Internet at info@efo.org.

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Eastside Conservation Coordinator Needed

The Eastside Conservation Coordinator/Chair position is currently vacant, and NPSO needs someone to fill that role. Responsibilities include working with chapters to identify and participate in public input on federal, regional, state, and local conservationrelated issues that affect Oregon east of the Cascade crest. Letter writing, research, and occasionally meetings with officials or agency staff are typical duties of the position. A large time commitment is usually not required. If you are interested in serving NPSO in this position, please contact the president at president@NPSOregon.org.

Jerry Igo to Become Newest NPSO Fellow

Jerry Igo, President of Mid-Columbia Chapter, will become NPSO's latest Fellow at the coming NPSO Annual Meeting in Ashland. The award ceremony will take place at the Green Springs Inn following the banquet on the evening of Saturday June 8. We hope that as many NPSO members as possible will be on hand for this event. Congratulations, Jerry!

Besides the award, Jerry becomes a complimentary Life Member of our Society. His biography and photo will appear in a coming issue of *Kalmiopsis*. Jerry was nominated by Michael Igo.

The Fellows Committee wishes to suggest that persons who were instrumental in the original founding of our Society or its chapters or those who were early state Presidents, Secretaries, Editors, Treasurers, etc. should receive this award in the near future. We hope that Portland Chapter and other early chapters will submit nominations next fall. Watch for our Fellows announcement in the *Bulletin*.

The Fellows Committee has recruited a new member. Kelli Van Norman has volunteered to join the committee. Welcome, Kelli!

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