



Bulletin

of the Native Plant Society of Oregon

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

VOLUME 44, No. 1

FEBRUARY 2011

Intern Report

In Search of *Cypripedium fasciculatum*

by Kristen Emmett, Geoff Gardner, and Andrew Dempsey-Karp

This article is the second of two written by the 2010 Native Plant Society of Oregon/Institute for Applied Ecology (IAE) interns in the Conservation Research Program. Our interns participated in rare plant monitoring, restoration, floristic surveys, seed collection, and other research projects conducted by IAE staff throughout Oregon. In this article, the interns in the Conservation Research Program, describe their experience assisting with surveys for clustered lady's slipper (*Cypripedium fasciculatum*) in southern Oregon. For more information on internship opportunities, please contact IAE at andrea@appliedeco.org, 541-753-3099 ext. 401 or visit www.appliedeco.org. We thank NPSO for contributing to botanical education and work experience.

-Andrea S. Thorpe Ph.D., Institute for Applied Ecology, Corvallis, Oregon

One of the challenges in managing rare species is accurately estimating the number and size of existing populations. As interns with the Institute for Applied Ecology (IAE), we helped conduct surveys of clustered lady's slipper (*Cypripedium fasciculatum*)

to create a Population Viability Analysis (PVA) - a model for predicting the probability of extinction. Currently, the BLM and USDA Forest Service list *C. fasciculatum* as a Sensitive Species and the Oregon Biodiversity Information Center lists *C. fasciculatum* as

threatened with extirpation. The information from the PVA will assist with making future management decisions for this species.

In Oregon, clustered lady's slipper is found mainly in the southwest

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It's Still Renewal Time!

The NPSO membership year is January to December. Many of you have already renewed, but if you haven't yet, please do so before the end of February, 2011 to ensure that you do not miss out on any of the *Bulletins* or on the 2011 issue of *Kalmiopsis*. Before you send in your renewal, it's a good idea to check the address label on this issue of the *Bulletin*. If it shows 2011 (or a later year) along the top, you are all set for the coming year and do not need to renew now.

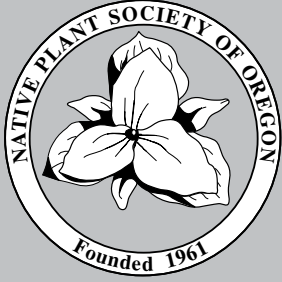
It's also a good time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Award is used for research projects in western Oregon. The Rare and Endangered Plant Fund supports work with our most threatened plants. The Augusta Rockefeller and Jean Davis Memorial Scholarships are awarded annually to a botany student at an Oregon college or university. You can also include a contribution to the Oregon Flora Project along with your dues.

Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

Notice for Earth Share Contributors: please ignore this notice unless you wish to become a regular member of NPSO. You will continue to receive the *Bulletin* for one year from the time of your contribution.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregion.org>

E-mail Discussion List

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

General Business Address

P.O. Box 902
Eugene, OR 97440
or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

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Bulletin of the Native Plant Society of Oregon

Editor: Taya Cummins
Layout Artist: Jocelyn Duffy

ISSN 0884-599. Published 10 times per year. Subscription price \$18/year. Date and issue number on page 1.

The submission date is the 10th of each month for the following month's issue except for the Aug/Sept issue which is July 24 and the Dec/Jan issue which is November 24. Send submissions by e-mail to bulletin@NPSOregion.org.

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.

Grant Proposals Requested

The Native Plant Society of Oregon sponsors small field research grants. The objectives of the program are: 1) To stimulate basic field research into the biology and distribution of Oregon's native and naturalized flora and vegetation, particularly in the more remote areas of the state. 2) To promote native plant conservation through better understanding of Oregon's flora and vegetation and the factors affecting their survival. Persons interested in applying for funding can obtain a copy of the program policy and guidelines from:

Dan Luoma
Field Research Grants Committee Chairman
3740 NW Harrison Ave.
Corvallis, OR 97330

The information may also be found on NPSO's Web site, <http://www.npsoregon.org/grants.html>. Research proposals are due by March 1, 2011.

Get Well Wishes for Frank Lang



Frank recently suffered a stroke and is now recovering well at home. He was the Founder and first President of the Siskiyou Chapter of NPSO, and was honored as a Fellow of the Native Plant Society of Oregon in the year 2000. We all send our heart-felt get well soon thoughts to Frank.



Rough eyelashweed (*Blepharipappus scaber* Hook.) is a native annual in the Aster family. This specimen was found along highway 140 in Klamath County at a 4730 foot elevation. Flowering season for *B. scaber* runs April through September.

PHOTO BY GERALD D. CARR; [HTTP://WWW.BOTANY.HAWAII.EDU/FACULTY/CARR/](http://www.botany.hawaii.edu/faculty/carr/)

NPSO CALENDAR

State Notes

June 24-26, 2011

Annual NPSO Meeting: The Portland Chapter will be hosting the 2011 annual meeting of the Native Plant Society of Oregon in Logan Valley, located on the south side of the Strawberry Mountains. This area has an extremely diverse ecological makeup, including five of the seven major life zones in North America. Nearly every type of alpine wildflower found west of the Rockies can be observed here. The rich flora is complemented by diverse wildlife and geological history. Join us in Logan Valley this June, and you too will agree that this is a special place worthy of holding the annual meeting, and celebrating the 50th Anniversary of NPSO. More information is available at <http://2011.npsoregon.org/>.

Blue Mountain

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

Cheahmill

For more information, visit the chapter website, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact Jennie Sue Dunn-Dixon at jsdd51@verizon.net.

February 24, Thursday, 7-8:45 pm

Program: Update on Sudden Oak Death. Dr. Nancy K. Osterbauer, a Plant Health Program Manager for the Oregon Department of Agriculture, will give a presentation to update us on Sudden Oak Death, which affects our local Oregon white oak, (*Quercus garryana*). The disease, *Phytophthora ramorum*, has spread and killed hundreds of otherwise healthy oaks in Oregon. Location: Carnegie Room, McMinnville Public Library, 225 N.W. Adams St. (Highway 99W). Parking lot entrances on Adams and Second streets. Information: 503-835-1042, livesimplymarna@frontier.com.

March 24, Thursday, 7-8:45 p.m.

Talk: Native Plants in the Garden: A Historical Perspective. Linda McMahon of Corvallis, staff chair of the OSU Extension Office in McMinnville, will give an illustrated historical perspective on how Americans garden with native plants. McMahon has a passion for native plants and takes fantastic photographs. Location: Carnegie Room, McMinnville Public Library, 225 N.W. Adams St. (Highway 99W). Parking lot entrances on Adams and Second Streets. Information: 503-835-1042, livesimplymarna@frontier.com.

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.

April 28, Thursday, 7-8:45 p.m.

Talk: Wildflowers of Mary's Peak. Dr. Steven E. Carpenter of Corvallis, retired professional botanist and author of the beautiful pocket guide, "Wildflowers of Mary's Peak Meadows," will speak. Mary's Peak, the highest mountain in the Coast Range, boasts a vast array of native forbs. Location: Carnegie Room, McMinnville Public Library, 225 N.W. Adams St. (Highway 99W). Parking lot entrances on Adams and Second streets. Information: 503-835-1042, livesimplymarna@frontier.com.

May 22, Saturday

Special event: Wildflower Show. The NPSO Cheahmill Chapter's annual wildflower show will include hundreds of labeled native plant samples, a microscope to help everyone identify plant parts, other educational displays, and a native plant sale. Location: Carnegie Room of McMinnville Public Library, 225 N.W. Adams St., McMinnville. More information to come later.

May 26, Thursday, 7-8:45 p.m.

Program: Rare, Threatened and Endangered Plants. Lindsey Wise, botanist with the Oregon Biodiversity Information Center at Portland State University, will familiarize us with species that are rare, endangered, and/or threatened in nearby locales in Oregon. She will focus on identifying plants which we might see in nature nearby. Location: Carnegie Room, McMinnville Public Library, 225 N.W. Adams St. (Highway 99W). Parking lot entrances on Adams and Second streets. Information: 503-835-1042, livesimplymarna@frontier.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Laurel Moulton at lamoulto@yahoo.com.

February 14, Monday, 7:30 pm
Meeting: The Wonderful World of

Pollinators. Nan Vance will be joining us to share some of the fantastic photos that she has captured during her many excursions to document the diversity of pollinators on native plants. Location: Avery Park Nature Center. Information: Contact Laurel Moulton at lamoulto@yahoo.com or see more details on upcoming emails.

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists and botanical information about Lane County plants and the people who love them.

February 14, Monday, 7:30 pm

Meeting: Historic and Current Ethno-botany as Practiced by Native and Rural Americans. Eric Jones shows us the uses of native and naturalized plants with implications for management and restoration of habitats. He cites the West Eugene Wetlands Ethno-botanical project as an example of the challenges and benefits. Location: EWEB Training Room at 500 East 4th Avenue, Eugene. For information, call 541-746-9478.

March 5, Saturday, 9:00 am

Field Trip: Mount Pisgah. View early wildflowers and habitat restoration work on the floodplain of the Coast Fork of the Willamette River. The walk is 3 miles, and we will see dwarf isopyrum (*Enemion stipitatum*) in bloom. Bring snacks and water. Location: Mount Pisgah Arboretum. For more information call 541-345-5531.

March 21, Monday, 7:30 pm

(Note: This presentation was originally scheduled in January.)

Meeting: Delights, Myths and Legends of Native Plant Gardening with Bruce Newhouse. Celebrate the first day of spring! We are going to explore the myths, legends and delights of native gardening and landscaping in this presentation on how to create “deep gardening” goals that are both good looking and purposeful. Is there really a difference between planting native or non-native plants? Do native plants

have special care needs? Native plants are not easy to find for sale, so where can I get them? These and other questions will be addressed in this show for homeowners, landscape architects and designers, nursery owners, permaculture enthusiasts and others. You can create a small ark of native biodiversity in your yard if you are will to include native plants, bees, butterflies and birds as part of your inner circle of friends. Sharing between like-minded gardeners and landscapers will be encouraged during this event. If you would like to read a good primer, try “Bringing Nature Home,” by Douglas Tallamy. Location: EWEB Training Room at 500 East 4th Avenue, Eugene. For more info call 541-343-2364.

High Desert

The High Desert chapter is inactive at this time. If you are interested in participating in organizing chapter events, please contact membership@nps.org.

Klamath Basin

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

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at wusara96@yahoo.com.

February 10, Thursday, 7 p.m.

Meeting: Fire—A Force of Life. Jurgen Hess, a consulting landscape architect/environmental planner and former natural resource manager for the USFS, will describe wildfire history and the role of fire in the ecology and management of forests, grasslands, and native plants in the western United States. Federal wildfire suppression policy will be explained. Hess will also describe how this policy and climate change have affected the health of forest ecosystems, and he'll suggest what can be done to address problems. Recent Gorge area wildfires will be examined, and examples of successful forest restoration projects will be presented.

Location: Boardroom, Building 1, Columbia Gorge Community College, The Dalles.

March 26, Saturday, 9:30 am

Hike: Early and Rare Wildflower Hunt. Co-sponsored with the Klickitat Trail Conservancy. Join Sara Wu and Nancy Allen for a moderately paced hike along Swale Creek in the eastern Gorge. About 5 miles round trip. Look for desert parsleys, especially purple leptotaenia (*Lomatium columbianum*), and rare Dalles Mountain buttercup (*Ranunculus tritermatus*) on this occasionally rocky but nearly flat trail. Dress warmly! Bring a lunch. Location: Meet at 9:30 am at Lyle Trailhead of the Klickitat Trail. From there we will car-pool 15 miles to the Harms Rd. Trailhead where the hike begins OR meet at the Harms Rd. Trailhead at 10:15 am. Go to <http://www.klickitat-trail.org/map.htm> for maps. Information: Contact Sara Wu at wusara96@yahoo.com..

North Coast

For information on the North Coast Chapter call Janet Stahl at 503-842-8708.

Portland

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

February 10, Thursday, 7:00 pm

Talk: Plants of the Mountains of Northern Wyoming. Chapter members Jan and Dave Dobak will be presenting a talk about the outstanding mountains of northern Wyoming - the Bighorn Mountains and Beartooth Pass. During their July visit, they saw lots of glorious limestone outcrops and flowers galore. Among the many beauties are *Aquilegia jonesii*, *Eritrichium nanum*, and *Tele-sonix jamesii*. Location: Mount Tabor Presbyterian Church, Southeast Belmont at 54th Ave. Church lot parking OK. Information: Contact Billy Don at 503-515-1708.

Siskiyou

The Siskiyou chapter e-mails meeting reminders and last-minute information such as field trip cancellations. To be added to the list, please send your e-mail address to Kristi Mergenthaler at coprolite-mergie@yahoo.com.

February 17, Thursday, 7:15 pm

Meeting: The Genetics of Noble Fir and Red Fir. Dr. David Oline will present the results of an ongoing genetic study investigating the distribution and relationships of noble fir (*Abies procera*) and California red fir (*Abies magnifica magnifica*). In particular, he will address the issue of the intermediate Shasta red fir (*Abies magnifica shastensis*), which the genetic data suggest is the result of hybridization. Refreshments served at 7:15 pm and talk begins at 7:30 pm. Location: Southern Oregon University, Science Building, RM 171. Refreshments served at 7:15pm. Information: Contact Kristi at 541-941-3744.

February 20, Sunday, 10 am

Fieldtrip: Winter Ecology Walk. Join botanist Kristi Mergenthaler and birder Frank Lospalluto for a half day stroll along the Wagner Creek Loop Trail. We will focus on twigs, lichens, mosses, and birds as we investigate a beautiful riparian forest. Co-sponsored by the Klamath Bird Observatory & the Siskiyou Chapter of the Native Plant Society of Oregon. Location: Meet at Tark's parking lot in Talent at 10am to carpool to site. Information: Free but space is limited. Call Northwest Nature Shop to register at 541-482-3241.

Umpqua Valley

Visit www.umpquavalley.npsoregon.org for more information on chapter activities.

February 8, Tuesday, Business meeting at 6 pm, Program at 7 pm

Program: An evening with Dr Ellen Morris Bishop. Dr. Bishop, photographer, writer, geologist, and science advisor for the Oregon Paleo Lands Institute, will provide a geologist's view of ancient landscapes and address

the following questions: Have plants contributed to global climate through the past 2.5 billion years? How did ancient forests and grasslands modify and react to warming and cooling patterns through time? What might we anticipate as climates shift and the globe warms? This presentation hosted at the Douglas County Museum of Cultural and Natural History. Directions: I-5 exit 123. Museum address is 123 Museum Drive, Roseburg. Information: Call Donna Rawson at 541-459-2821 evenings.

February 19, Saturday, 8:30 am

Field Trip: Fall Creek Falls Hike. Fall Creek Falls is a one-mile trail that passes through a narrow bedrock crevice and lush vegetation to a tiered double falls. It is located past Glide, Oregon on Hwy 138. We are bound to see some early blooming plants, ferns and mosses. Directions: To carpool, meet in the NE corner of the parking lot behind the Douglas County Courthouse (Fowler and Diamond Lake Blvd) in Roseburg at 8:30 am. Information: Call Sam Friedman at 541-673-0589.

Willamette Valley

For program information, contact John Savage at 503-399-8615.

February 10, Thursday, 7-8:30 pm

Program: Mushroom Identification. Jon Mayer, 4-H instructor, and Josh Travers, United States Forest Service, will discuss Oregon mushrooms, where to find them and their role in the ecosystem. Co-sponsored by the Straub Center and the Willamette Valley Chapter of the Native Plant Society. Location: Straub Environmental Learning Center, 1320 A St. NE, next to Olinger Pool, near North Salem High. Information: The class costs \$5 and is open to the public. Registration is required. Call 503-391-4145 to register.

William Cusick

Visit our website at <http://williamcusick.npsoregon.org> for updates and general information.

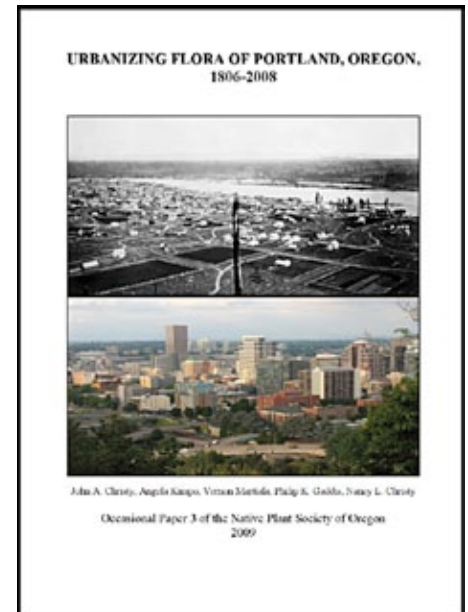
Now Available: NPSO Occasional Paper 3

Urbanizing Flora of Portland, Oregon, 1806-2008

NPSO Occasional Paper 3: 1-315.

by John A. Christy, Angela Kimpo, Vernon Marttala, Philip K. Gaddis, and Nancy L. Christy (2009)

This compilation of the vascular plants of the Portland-Vancouver area analyzes changes in the region's vegetation since 1806. A total of 1,556 taxa in 125 families are represented. Based on herbarium specimens, publications, and unpublished manuscripts, it tracks the changing fortunes of native and exotic species shaped by an expanding urban environment. It includes a history of botany in Portland, a gazetteer of historical and modern place names, botanical miscellanea from 19th and early 20th century Portland, and lists of rare species for use by planners and land managers.



Price: \$15 postpaid, checks payable to Native Plant Society of Oregon.

Orders: Prepaid only

Contact: John Christy

7050 SW Canyon Crest Drive
Portland, OR 97225-3623

john.christy@oregonstate.edu

Please remember to include your mailing address and telephone number.

OTHER EVENTS

Ashland Parks and Recreation Department

February 2, Wednesday, 7-8 pm

Event: Seed Swap. Are you planning your garden? Before you order a long list of seeds from the catalogs, you might want to try acquiring seeds locally at North Mountain Park's seed swap. You can save money, grow plants that are adapted to our local climate, and exchange information with other gardeners. It's fun and simple—just bring seeds you have saved from your garden and some bags or envelopes for taking seed with you. The Nature Center will also be selling low-cost seed harvested at the park by volunteers. Location: North Mountain Park. Information: Call North Mountain Park Nature Center at 541-488-6606.

February 9-March 9, Wednesdays, 6:30-8:30 pm

Class: Sustainable Landscape Practices. Join Landscape Architect Bonnie Bayard as she explores the following topics: 1) Plant Design Considerations; 2) Plant Composition; 3) Lower Maintenance Landscape Ideas; 4) No Lawn! Then What?; 5) Going Beyond Xeriscape. With over 25 years of experience, Bonnie brings to her classes a love and knowledge of how to create intimate landscapes that evoke peace and serenity. Her interest in drought-tolerant concepts, coupled with sacred space design practices, leads to landscapes that respect and work with nature. Location: North Mountain Park. Information: Call North Mountain Park Nature Center at 541-488-6606.

February 12, Saturday, 10am-12 pm

Class: Successful Seed-Starting. Join Jennifer Ewing in learning to grow your own plant starts from any variety of seeds you desire. In this hands-on class you'll learn straightforward methods for successfully propagating seeds

of your choosing. You'll save money and enjoy abundant starts for your spring and summer garden. Jennifer has owned and operated her own commercial nursery for 10 years and was head propagator for Siskiyou Rare Plant Nursery for four years. Location: North Mountain Park. Information: Call North Mountain Park Nature Center at 541-488-6606.

February 12, Saturday, 1-3 pm

Class: Pruning Basics for Home Gardeners. Join Jennifer Ewing to overcome your fear of one of the biggest tasks of garden maintenance—pruning! In this hands-on workshop you will learn the skills and information to tackle roses, shrubs and small trees. Bring your own gloves and pruners. (Some pruners will be available.). Jennifer has owned and operated her own commercial nursery for 10 years and was head propagator for Siskiyou Rare Plant Nursery for four years. Location: North Mountain Park. Information: Call North Mountain Park Nature Center at 541-488-6606.

Glide Wildflower Show

April 23-24, Saturday & Sunday, 9 am-5 pm

Glide Wildflower Show. Every spring, thousands of nature lovers come to Glide, Oregon, to see a multitude of native wildflowers artfully vased and displayed. Learn the secrets of these native plants from botanical experts that will be on hand to answer questions and give presentations. Now is the time to mark your calendar for this cornucopia of floral delight in the last weekend of April! Location: Glide Community Center, 20062 North Umpqua Highway, Glide, Or. Information: Call 541-496-3323 or view the website at www.glidewildflowershow.org.

Eugene Natural History Society

February 18, 7:30 pm

Talk: Salamander Courtship. What could be better than studying the courtship of salamanders for a career? Come enjoy a colorful, illustrated talk by Dr. Lynne Houck, Professor, OSU. She has been the recipient of numerous National Science Foundation grants and will present "Salamander Courtship" at the February meeting of the Eugene Natural History Society. The community is invited free of charge. Location: Room 100, Willamette Hall, UO campus.

March 18, Friday, 7:30 pm

Talk: Not your "ho hum" climate change talk. Hear about cutting edge research concerning the future status of our terrestrial ecosystems. Attend a dynamic talk by Scott Bridgham, Professor of biology and environmental studies at the University of Oregon. Scott's presentation will detail the ongoing impact of climate change on ecosystems as diverse as northern peatlands and prairies and oak savanna. The public is invited free of charge. Bring your questions. Location: Room 100, Willamette Hall, UO campus.

North American Butterfly Association

February 7, Monday, 7 pm

Presentation: Butterflies of Washington State. The Eugene-Springfield Chapter of the North American Butterfly Association presents Idie Ulsh, a Naturalist, who is the founder and a past president of the Washington Butterfly Association. She is also a past president of the Seattle Audubon Society. She will speak on the Wonderful Washington Butterflies and Where to Find Them. Idie Ulsh will guide us through photos and stories of butterflies she knows well, including many not

found here, or rare, in Oregon. Location: EWEB Training Center at 500 4th Ave., Eugene, OR. Information: Free, all are welcome! Contact Dave or Lois Hagen at 541-344-7630.

North American Rock Garden Society

February 12, Saturday, 1 pm

Talk: Exploring Wyoming's Bighorn and Beartooth Mountains. Christine, botanist and plant lover, spent several weeks during the summer of 2009 exploring the beautiful Bighorn and Beartooth Mountains of Wyoming. With wildflowers at their peak, she saw alpine treasures including *Aquilegia jonesii*, *Telesonix jamesii*, *Kelseya uniflora* and carpets of *Eritrichium nanum*, just to name a few. The talk is sponsored by the Emerald Chapter of the North American Rock Garden Society and is free and open to all. Location: Eugene Garden Club, 1645 High St. Call Tanya at 541-937-1401 with questions.

Willamette Valley Hardy Plant Group

February 8, Tuesday, 6:30 p.m

Presentation: The Hillside Gardens of the Portland Japanese Garden. Ed McVicker who will present an illustrated introduction to the natural style found in modern Japanese gardens, using Portland's Japanese Garden as an example. Many Japanese design elements translate easily to gardens in the Pacific Northwest. Ed McVicker is the chairman of the Board of Directors of Portland's Japanese Gardens, has volunteered for years at the garden and given talks about the many styles within the garden. Location: University of Oregon, Agate Hall, Agate Street at 18th Avenue, Eugene, OR. There is ample parking next to Agate Hall. Information: Admission is \$6 for non-members and \$3 for members. Contact Pam Perryman at 541-344-0896 or visit the website at www.thehardyplantgroup.org.

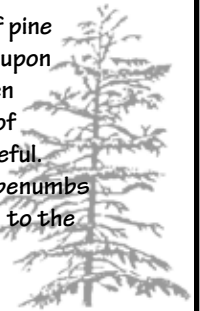
Plan Now for Native Plant Appreciation Week

Although the weather outside is frightful, we know the arrival of spring will be delightful... so it's not too early to plan for Native Plant Appreciation Week! NPAW 2011 will be May 1-7, 2011. This is NPSO's largest coordinated public outreach event of the year. It is an excellent opportunity for your chapter to sponsor workshops, hikes, plant sales, and other great events while helping to raise visibility for your chapter and NPSO. As the weather improves, we will all be much

busier, so now is the time to plan! This year, the State Parks Trust would like to coordinate with NPSO to raise awareness of our State Parks. Consequently, this is a fine opportunity for you to plan a hike at a State Park in your area on May 1 or May 7. Please notify your chapter's NPAW Coordinator as soon as possible or contact Judi Sanders at judi.sanders@gmail.com and we will assist with publicity and event coordination activities.

I remember a hundred lovely lakes, and recall the fragrant breath of pine and fir and cedar and poplar trees. The trail has strung upon it, as upon a thread of silk, opalescent dawns and saffron sunsets. It has given me blessed release from care and worry and the troubled thinking of our modern day. It has been a return to the primitive and the peaceful. Whenever the pressure of our complex city life thins my blood and benumbs my brain, I seek relief in the trail; and when I hear the coyote wailing to the yellow dawn, my cares fall from me - I am happy.

Hamlin Garland (1860-1940), American author



NPSO Items for Sale

Booklets on Gardening with Native Plants. Emerald Chapter's three booklets about native plants of the southern Willamette Valley are "Native Herbaceous Plants in Our Gardens," "Native Shrubs in Our Gardens," and "Native Trees in Our Gardens." \$9.35/set of three, mail order. Individual booklets sold from the NGAP booth at Down-To-Earth, or by check made out to "Emerald Chapter NPSO" with "NGAP Gardening Guides" in the memo line to P.O. Box 902, Eugene OR 97440-0902. Also see online in PDF format at www.emeraldnpso.org Click on "Gardening with Native Plants."

Field Guide to Shrubs of Southwest Oregon. An 80-page, pocket-sized field guide identifies 56 of the most frequently-encountered shrubs in SW Oregon, and describes each species in detail with words and photos, including habitat, leaves, twigs, fruit, and flowers. Dichotomous keys, illustrations of common plant parts and glossary included. Janet Walker, NPSO Siskiyou chapter member, and Max Bennet, Forestry Agent with Jackson/Josephine Counties. \$7/copy; checks payable to "OSU Extension Service." Mail to Shrub Guide, Jackson County Extension, 569 Hanley Rd., Central Point, OR 97502.

Poseidon's Necklace. Don Begnoche, Siskiyou chapter, has issued an Oregon field guide covering the coastal section, mile by mile, from Astoria to Brookings. Genesis of the coastal landscape and flora found on dunes, headlands and montane slopes; over 500 landscape and floral photographs as well as geologic maps and illustrations. PDF format on a CD. \$19.95 + \$2.50 s/h. Mail checks to Don Begnoche, 439 Herbert St., Ashland, OR 97520



Clustered lady's slipper, Cypripedium fasciculatum, in southern Oregon.

corner of the state in the Klamath Mountains. We typically encountered the plant under high canopy Douglas-fir (*Pseudotsuga menziesii*) forests, and occasionally in madrone (*Arbutus menziesii*) dominated forests. Common associated woody understory species were hazelnut (*Corylus cornuta* var. *californica*), oceanspray (*Holodiscus discolor*), Pacific dogwood (*Cornus nuttallii*) and poison oak (*Toxicodendron diversilobum*). The forest floor was shady with dappled sunlight and generally consisted of forbs such as trillium (*Trillium ovatum*), pathfinder (*Adenocaulon bicolor*), false Solomon's-seal (*Maianthemum racemosum*), and vanilla leaf (*Achlys californica*).

In May of 2008 and 2009, IAE surveyed 44 populations of clustered lady's slipper in the Medford District of the Bureau of Land Management. In 2010, we surveyed 20 additional sites, including some that were on the Rogue-Siskiyou National Forest. Populations were randomly selected from all known populations. These populations had last been surveyed 1 and 27 years ago. One of the greatest challenges was locating the populations. Most did not

have GPS coordinates and proved difficult to find, especially in the older sites with small population sizes and vague directions. For example,

Stop your vehicle where the road begins to bend to the West. Enter the forest and walk down hill for 800 ft. There is a large Douglas-fir tree in the middle of a game trail. Continue downhill to a madrone tree with a red ribbon. The population is on a northern facing slope, near the drainage, with an aspect of 62 degrees.

To find the sites, we focused on details of the terrain such as slope, aspect, and associated plants. Some of the more recent sites had identifiable flagging to mark the location. However, the flagging on older sites had deteriorated and was often not present. In these instances we thoroughly searched the locations that best matched the original site description and directions.

While crawling beneath tree limbs and untangling ourselves from various shrubs, we continuously scanned the ground cover for characteristics of our target species. Clustered lady's slipper has a conspicuously hairy stem and a pair of sessile opposite leaves. The

flower is small (4.5 cm in length) with mottled red and greenish-yellow petals. The plant can grow to a maximum height of 20 cm, but in its vegetative form the 4-8 cm leaves tend to blend into the surrounding ground cover. Relative to the surrounding forest, the plant is small, fragile and when not in flower, easily mistaken for other forbs such as bead lily (*Clintonia uniflora*) and Hooker's fairy bells (*Prosartes hookeri*). However, the hairy stems and more broadly elliptical leaves distinguished it from other species.

When we found populations of clustered lady's slipper, we recorded the number of flowering and vegetative plants. We described the habitat of all locations we visited, even when we did not find a clustered lady's slipper population. The data that we collected this summer will be added to data taken at other sites in previous years to increase the robustness of the PVA. Based on the 2008 and 2009 surveys of 44 populations the PVA indicated that the probability of extinction increased as time since the site was last monitored increased. Also, small populations were significantly more likely to go extinct than large populations. The majority of clustered lady's slipper populations are small and have not been revisited since initial discover, suggesting that there may be many fewer populations than the total number that have been recorded.

Searching for wild populations of clustered lady's slipper was a lot of fun as it was a unique opportunity to conduct rare plant research in remote wilderness. Through projects such as this, our internship at IAE has allowed us to better understand the theoretical importance and practical application of conservation biology research. Grateful for this experience, we are all eager to continue to apply ourselves in the fields of botany and ecology.



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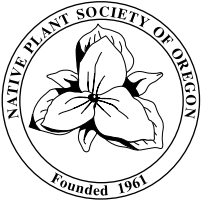
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The Oregon Vascular Plant Checklist is now available! This resource has been sixteen years in the making, and represents the core research of the Oregon Flora Project. We are presenting the information to users as a collection of downloadable pdf documents—one for each plant family. On our website (<http://oregonflora.org/checklist.php>), you will find tables that organize these treatments by family and by genus, including synonymous names. There are also lists of the contributors, and the genera in Oregon whose family has changed according to the Angiosperm Phylogeny Group (“APG3”). Special thanks go to staff member Thea Cook, who has overseen the development of the Checklist since 2005.

We hope you find the Checklist to be a valuable tool that updates our knowledge of the plants of Oregon, and that serves as a useful cross-reference to the disparate floras which currently inform us. It is a great advance toward the completion of the new Flora of Oregon!

Your financial support to keep the OFP moving forward is greatly appreciated. Contributions can be made payable to the Agricultural Research Foundation (with “OFP-4482” on the memo line), and mailed to: Agricultural Research Foundation, Oregon State University, 100 Strand Ag Hall, Corvallis, OR 97331-8521.