



# Bulletin

of the

# Native Plant Society of Oregon

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

VOLUME 47, NO. 2

MARCH 2014

## Habitat Management for the Endangered Willamette Daisy

by Kelsey Copes-Gerbitz, Andrew Heaston, Tobin Weatherson, 2013 IAE/NPSO Interns

For more information about research projects at the Institute for Applied Ecology (IAE), visit their conservation research blog, 'Adventures in Conservation Research', at <http://research.appliedeco.org>. For information on internship opportunities, please contact Sarah Bois at [sarah@appliedeco.org](mailto:sarah@appliedeco.org), 541-753-3099 ext. 401 or visit [www.appliedeco.org](http://www.appliedeco.org).

### Introduction

The Willamette daisy (*Erigeron decumbens*) is a federally and state listed endangered species, endemic to the Willamette Valley. Willamette daisy is a short statured, decumbent, herbaceous species, with waxy white-grey leaves and small, purple flowers. Once widespread in grassland and prairie

ecosystems, the species faces threats from disturbance, competition from non-native weeds, habitat degradation, and fragmentation leading to genetic isolation. Remnant populations are often small and isolated, and effective management strategies are not fully understood. Further, the majority of remnant populations (24 of 28) occur on private land, where managers are not required to take action to preserve the species. These populations are expected to be extirpated unless conservation action is taken (U.S. FWS, 2010).

Previous studies conducted by the Institute for Applied Ecology (IAE) in collaboration with the United States Fish and Wildlife Service (USFWS) have tested the effect of various

management techniques on growth and reproduction of Willamette daisy. Starting in 2011, prairie-specific management applications, including the use of prescribed fire, mowing, sheep grazing, carbon addition, grass-specific herbicide, and glyphosate applications were applied in Willamette daisy outplantings throughout the Corvallis and Eugene area. Results thus far have shown that survivorship was generally high in the first year (between 92 and 95%), and varied widely in the second year, ranging from 46 to 90% in controls. Survivorship did not vary significantly by treatment type but rather by site, suggesting that while Willamette daisy can tolerate a wide variety of

*continued on page 6*

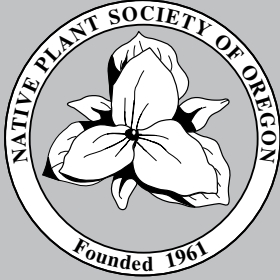


IAE

Figure 1: NPSO interns (from the left) Andrew Heaston, Kelsey Copes-Gerbitz, and Tobin Weatherson pose while planting Willamette daisy.

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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](mailto:majordomo@tardigrade.net), with the following in the body of the message: `subscribe nps`

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### Bulletin of the Native Plant Society of Oregon

Editor: Erika Wedenoja  
Layout Artist: Cat Mead

ISSN 0884-599. Published 10 times per year. Subscription price specified in Membership Form printed on inside back cover page of this issue. 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@NPSOregon.org](mailto:bulletin@NPSOregon.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.

## NPSO Board Candidates for 2014

The Nominating Committee offers the following list of candidates for state offices. The candidates' brief résumés, along with the ballot, will be printed in the April issue of the *Bulletin*. Any group of five or more dues-paying members may also submit nominations (with nominee's consent). The deadline for the April issue of the *Bulletin* is March 10th.

President: Kelli Van Norman  
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Laura Taylor  
Kevin Weitemier



**!! IF YOU HAVEN'T RENEWED YET FOR 2014, YOUR MEMBERSHIP WILL LAPSE SOON !!**

Look at the label on this Bulletin and if "2013" appears along the top edge, this is the LAST Bulletin you will receive. If you don't want to miss out on any of this year's *Bulletins*, or *Kalmiopsis*, please send in your dues payment right away!



## Kalmiopsis Seeking New Editor

If the experience of being the editor of a classy botany journal is on your bucket list, then you should jump at this chance. Due to unforeseen circumstances, the current editor is unable to continue, so a new editor is needed for the 2015 issue. Although the new editor will no doubt make a number of changes, he/she will find that all the infrastructure is in place for moving ahead seamlessly. There is an experienced editorial board, a typesetter who has done the layout since the first issue, a printer who reliably gives an excellent product at a fair price, and a mail service that adds labels and deals with the bulk mail without a glitch. Information about the editorial responsibilities is on page 7 of the NPSO Board Handbook ([www.npsoregon.org/documents/NPSOBoardHandbook.pdf](http://www.npsoregon.org/documents/NPSOBoardHandbook.pdf)). If you are interested and have some experience in botany and editing, contact Judi Sanders at [president@npsoregon.org](mailto:president@npsoregon.org).

# NPSO CALENDAR

## State Notes

### NPSO Board Meeting

**April 19, Saturday, 10 am - 2 pm**

The next State board meeting will be in Hood River, sponsored by the Mid-Columbia Chapter. Take some time afterwards to enjoy Blossomfest; for information visit <http://hoodriver.org/events-festivals/chamber-events/blossom-fest>.

### NPSO Annual Meeting 2014

**June 6 - 8, Friday - Sunday**

The 2014 Annual Meeting will be sponsored by the Cheahmill Chapter. Join us for a coastal weekend in and around Cannon Beach. Meeting headquarters will be at Surfsand Resort. The Saturday banquet will include a keynote address by ecologist Kathleen Sayce. Additional information is in the February *Bulletin* and online at [www.npsoregon.org/annualmeeting.html](http://www.npsoregon.org/annualmeeting.html).

## Blue Mountain

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

## Ceahmill

*For more information, visit the chapter Web site, [www.oregon-nativeplants.com](http://www.oregon-nativeplants.com). To be added to the e-mail list for upcoming programs and events, please contact [cheahmillchapternpsocomcast.net](mailto:cheahmillchapternpsocomcast.net).*

**March 27, Thursday, 7 pm**

### Talk: Ecology and Geology of the NW and its Effect on Miller Woods.

Learn about regional ecology in the context of a wonderful, local conservation area. James Riedman, property manager of the Yamhill Soil and Water Conservation District's Miller Woods, will present on the landscape of the NW with special attention to the natural beauty of Miller Woods. Doors open at 6:45 pm for socializing. Meeting/Program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Park-

ing lot entrances on Adams and 2nd Streets. For more information contact: Luke Westphal, 971-388-9200 or [lukewestphal@gmail.com](mailto:lukewestphal@gmail.com).

## Corvallis

*For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Kevin Weitemier at [co\\_president@NPSOregon.org](mailto:co_president@NPSOregon.org) or*

### 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. A sample waiver form is available at [http://npsoregon.org/documents/NPSO\\_waiver.pdf](http://npsoregon.org/documents/NPSO_waiver.pdf). 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. You must pre-register for all events. 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. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

208-921-0827.

**March 10, Monday, 7:30 pm**

**Talk: Know Your Enemies: Invasives in Benton County.** Crystal Durbecq and Heath Keirstead of Benton Soil & Water Conservation District will discuss identification and control of invasive plants of concern in Benton County (and some that haven't arrived yet). They will also share information on which ones to report and how to report them! Location: Avery House in Avery Park. Contact Kevin, 208-921-0827, for more information.

**March 22, Saturday, 8 am - 3:30 pm**

**NPSO Table: Insights into Gardening.** *This event was rescheduled from February, due to snow.* Corvallis NPSO will be staffing a table at Insights into Gardening, a day-long seminar offering practical, hands-on learning for home gardeners and gardeners-to-be. You will find plenty of ideas to make your gardening easier, more enjoyable, and more successful. Raffles, exhibits, and books for sale by Grass Roots will be available. Pre-registration is \$30, \$35 at the door. Information: [www.extension.oregonstate.edu/benton/insights](http://www.extension.oregonstate.edu/benton/insights).

**April 14, Monday, 7:30 pm**

**Talk: Ecology of Mangrove Swamps around the World.** Dr. Boone Kauffman is our speaker for April. Location: Avery House in Avery Park. Contact Kevin, 208-921-0827, for more information.

## Emerald

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

**Meeting location:** Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off MLK Blvd. onto Scout Access Rd. across from Autzen and take the first left into the parking lot. The meeting room is on the right side as you face the

building.

### March 20, Thursday, 7:30 pm

**Meeting/Talk: The Delta Ponds Habitat Enhancement Project.** Lauri Holts, a natural resources coordinator with Eugene's Parks and Open Space Division, gives a presentation on this project, completed in 2012 to provide critical rearing habitat for juvenile Chinook salmon. The presentation will include a brief overview of the historic and pre-project conditions and will describe the City's efforts to establish a diverse native plant community and control invasive species, including the most recent invader, the aquatic Uruguayan primrose-willow (*Ludwigia hexapetala*). Location: Conference Room at Lane County Mental Health, see above for directions. For more information, call 541-349-9999.

### April 17, Thursday, 7:30 pm

**Meeting/Talk: Growing More than Plants at the Friends of Buford Park Nursery.** Jason Blazar gives a presentation on the purpose, scope, and scale of native plant material production in the Mt. Pisgah area. Jason has been the stewardship coordinator of Friends of Buford Park (FBP) since November 1999. His talk includes context within the FBP stewardship program, purpose, scale, production, marketing, ethnobotanical projects, educational opportunities, and an opportunity for the NPSO Emerald Chapter to consider partnering to develop a pollinator demonstration garden at the nursery. Location: Conference Room at Lane County Mental Health, see above for directions. For more information call 541-344-8377.

## High Desert

For information, visit the High Desert Chapter website: [www.highdesertnpsoregon.org](http://www.highdesertnpsoregon.org) and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email [highdesertnps@gmail.com](mailto:highdesertnps@gmail.com).

### March 11, Tuesday, 6:30 - 8 pm

**Program: Spring Meeting.** Join us to discuss 2014 field trips and other activities. Light refreshments will be served. Location: Brooks Room at the Bend Downtown Library, 601 NW Wall St.

### April 26-27, Saturday-Sunday

**Field Trip: Glide Wildflower Show.** We will visit the Glide Wildflower Show and botanize on the west side of the Cascades, with an overnight campout on the 26th. If interested in camping, contact Susan Berger at [suzyfishn@gmail.com](mailto:suzyfishn@gmail.com).

### June 20-21, Friday-Saturday

**Event: Central Oregon Wildflower Show.** The High Desert Chapter is working on this wildflower show, to be held at the Sunriver Nature Center ([www.sunrivernaturecenter.org](http://www.sunrivernaturecenter.org)). Volunteers will be needed to "harvest" specimens, help ID, and be on hand to answer questions during the two-day show. To help, please contact chapter vice president Susan Berger at [suzyfishn@gmail.com](mailto:suzyfishn@gmail.com).

## Klamath Basin

*This chapter has recently become active. For information, visit the Klamath Basin Chapter website: <http://klamathbasinnps.com> or contact the chapter president, Melissa Schroeder [meljschroeder@gmail.com](mailto:meljschroeder@gmail.com).*

**Meeting location:** All meetings are held in the Dow Center for Health Professions (DOW) 251 on the Oregon Institute of Technology campus. See chapter website for a map. Free parking is available in the visitor parking lot, which is just on the South side of the street from the DOW building.

### March 6, Thursday, 6:30 pm

**Meeting/Talk: BOPU: What's that?** Missy Anderson, a botanist with the Fremont-Winema National Forest will lead a talk on *Botrychium pumicola*, pumice grapefern. *B. pumicola* is a rare and unique fern in the family *Ophioglossaceae* that is endemic to Central Oregon. Come and learn some interesting facts about the ecology and management of this rare plant! Chapter meeting will follow the presentation. Location: Oregon Institute of Technology, DOW 251, see above for more information.

### April 3, Thursday, 6:30 pm

**Meeting/Talk: Decline of the**

**Bellinger's woolly meadowfoam.** Johanna Blanchard, BLM botanist with the Klamath Falls Resource area, will lead a talk on *Limnanthes floccosa* ssp. *bellingneriana*, Bellinger's woolly meadowfoam. This small annual herb is known from only a few populations in Southern Oregon and Northern California. Johanna will discuss the ecology of the species, including habitat, plant associations, and how to distinguish it from other co-occurring meadowfoam species. Additionally, she will talk about the species decline, its major threats, and the upcoming monitoring plan for the season. Location: Oregon Institute of Technology, DOW 251, see above for more information.

## Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at [wusara96@yahoo.com](mailto:wusara96@yahoo.com).

### March 20, Thursday, 7 pm

**Program/Meeting: The Oregon Biodiversity Information Center (ORBIC).** ORBIC has been the steward of information regarding the locations and statuses of rare species in Oregon for over 30 years. Lindsey Wise, biodiversity data manager, will provide an overview of the program and its value, and will show examples of records for rare plants found in the Gorge. She will also discuss how NPSO members and others can help maintain and update this important resource. Location: Room 1.366, Columbia Gorge Community College, The Dalles.

### April 17, Thursday, 7 pm

**Program/Meeting: Early Detection and Rapid Response to the Worst Weeds of the Columbia Gorge.** Cyndi Soliz, partnership specialist, Skamania County Noxious Weed Program and vice-president of the Cape Horn Conservancy, will provide an introduction to the "Worst Weeds of the Gorge" as designated by the Columbia Gorge Cooperative Weed Management Area (CGCWMA). The CGCWMA consists of 25 land management organizations that coordinate activities

to address invasive weeds across their jurisdictions within the Gorge. Their approach promotes Early-Detection-Rapid-Response (EDRR) strategies, with an emphasis on prevention. Location: Room 1.366, Columbia Gorge Community College, The Dalles.

## 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.*

**Facebook: Take a look at our Facebook page.** Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant pictures.

**Meeting location:** The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

### March 13, Thursday, 7 pm

**Program: Conserving Oregon's Environment: Breakthroughs That Made History.** Past Sierra Club Director Michael McCloskey will discuss his new book, *Conserving Oregon's Environment*, with a slide show. He will tell the story of some 80 accomplishments to advance conservation in Oregon, including Oregon's Endangered Species Act, on which Oregon's Native Plant Society took the lead, and explains why Oregon is seen as a national leader. He will be selling and signing copies of his book. Meeting location: Metro Building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

### March 18, Tuesday, 8:30 am - 4:30 pm

**Field Trip: Catherine Creek.** The premiere early flower spot in the Gorge is where we will search for grass widows, yellow bells, prairie stars, toothworts,

several desert parsleys, early glacier lilies, and others. Moderate walking to 5 miles with 800 ft. elevation gain. Drive is 120 miles round trip. For more information contact Angie Moore at 503 292 2093 or MLM@teleport.com.

### March 28, Friday, noon - 2 pm

**Field Trip: Hoyt Arboretum, Conifer Hike.** Join Hoyt Arboretum Curator Martin Nicholson for a 2 mile hike through the arboretum's conifer collection to hone your NW conifer identification skills. From Douglas fir to Brewers spruce the Hoyt collection has an almost complete set of the conifers that we see hiking through our natural areas. Location: Hoyt Arboretum Visitor Center, 4000 SW Fairview Blvd., accessible by MAX using the Washington Park Stop or Trimet Bus #63. For more information contact Martin Nicholson at martin.nicholson@portlandoregon.gov.

### April 8, Tuesday, 9 am

**Field Trip: McCord Creek.** Early flowers at McCord Creek include *Synthyris*, *Douglasia*, and *Oemlaria*. This is an easy hike of about 3 miles round trip with 500 feet elevation gain. Driving is about 60 miles round trip. Be ready to leave at 9 am; call leaders for meeting location: Jan and Dave Dobak, 503-248-9242.

### April 10, Thursday, 7 pm

**Program: Getting Close to Our Native Ferns.** Dr. David Wagner's talk will emphasize looking at our native ferns with a fresh eye using some of the newer tools of technology. He has been using his compound microscope, LED lights, digital camera, and stacking software to make beautiful, close-up pictures of some of the smaller parts of ferns, both outside and inside. Meeting location: Metro Building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

### April 12, Saturday, 2-4 pm

**Field Trip: Nob Hill Nature Park.** Join us in St. Helens for an easy stroll to view Trillium and fawn lily in an area currently undergoing restoration. Location: Meet at the city of St. Helens' wastewater treatment facility across

from the park. A plant list is available by calling trip leader, Caroline Skinner, at 503-248-9719.

## Save the Dates!

### May 3, Saturday, 10 am - 3 pm

**Field Class: Penstemon Keying Workshop.** This workshop will be held at the home of the instructor. For more information or to sign up for the class, contact Nancy Chapman at chapmannj@comcast.net.

### May 10 and 17, Saturdays, 8:30 am - 4 pm

**Field Class: Learn to Use a Botanical Key.** This two-day class at Tryon Creek State Park will be taught by Brent Miller. For more information or to sign up for the class, contact Nancy Chapman at chapmannj@comcast.net.

## Siskiyou

*To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2014, make a suggestion, or provide feedback regarding the field trip program please contact Sasha Joachims at: sasharain71@gmail.com.*

### March 13, Thursday, 4:30 - 6:30 pm

**Workshop: Exploring Oregon's Native Plants.** Presented by Bear Creek Watershed Education Partners and the Siskiyou Chapter of the Native Plant Society, this workshop is open to classroom teachers, informal educators, and anyone interested in sharing native plants with students. Stacy Moore of the Institute for Applied Ecology will present hands-on lessons to help your students explore native plants. She will share activities from the curriculum, *From Salmonberry to Sagebrush: Exploring Oregon's Native Plants*. Location: Rogue River Elementary School. Contact: Rebecca at 541-708-2104.

### March 20, Thursday, 7 pm

**Program: Poseidon to Zeus...a Geobotanical Romp from Low Tide to**

### the Summit of Saddle Mountain.

Local author, geologist, and naturalist Don Begnoche will lead us on a virtual romp exploring the area around Cannon Beach. This talk will also be a great introduction for folks attending the NPSO Annual Meeting this year. Location: Southern Oregon University, Science Building, Room 171. Refreshments at 6:45 pm, meeting and program at 7 pm. Contact: Kristi: 541-941-3744.

## Umpqua Valley

Visit [www.umpquavalleynativeplants.com](http://www.umpquavalleynativeplants.com) for more information on chapter activities or to be added to our e-mail list.

## Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

**March 20, Thursday, 7 pm**

**Program: Naturescaping.** Learn how to get started on your native landscape with Gail Gredler, horticulture instructor at Chemeketa Community College.

*Willamette Daisy cont'd from page 1*

management treatments, high quality habitat is needed for the greatest success in out-planting (Giles-Johnson, D.E.L. 2012). Further monitoring may reveal long-term trends not apparent in the first two years of growth after out-planting.

In 2013, we applied four experimental treatments in an effort to assess the effects of out-planting treatments on Willamette daisy establishment and long-term success. These treatments included non-native vegetation removal, topical mulch applications, a combination of vegetation removal and mulch application, and a control. Our experiment sought to determine planting methods that increase survivorship and give transplanted daisies an initial competitive advantage over invasive species. Our experiment was conducted at Field 8N at Finley National Wildlife Refuge, where the primary source of competition is the non-native false dandelion (*Hypochaeris radicata*), a mat-forming forb.

She will define “native plants,” discuss their benefits and uses, explain which plants are suitable for home landscapes and where to purchase them. Details for a Saturday, March 22 field trip will be announced in class. Location: The Straub Environmental Learning Center, 1320 A Street NE, next to Olinger Pool and near North Salem High School. Cost: \$5 per person for the class; \$10 per person for the field trip. Registration is required; contact Michelle Cordova at 503-391-4145, or [michelle@felc.org](mailto:michelle@felc.org).

**March 27, Thursday, 7 pm**

**Program: Wilderness Act at 50.** Come celebrate the 50th anniversary of the Wilderness Act with Bridget Callahan, wilderness campaign organizer for Oregon Wild. Celebrate past victories, explore the value of wilderness, and identify present and future obstacles to expand Oregon's wilderness. Callahan will highlight the botanical treasures of the Kalmiopsis Wilderness, an area that is host to the State's highest concentration of rare plants, but is currently threatened by logging, mining,

and illegal motorized vehicles. Free and open to the public. Location: The Straub Environmental Learning Center, 1320 A Street NE, next to Olinger Pool and near North Salem High School.

**April 4-5, Friday-Saturday, 10 am - 3 pm**

**Program: Erythronium Native Plant Festival and Sale.** Celebrate the earth's reawakening and the exquisitely beautiful *Erythronium oregonum* (native lilies) blooming at Historic Deepwood Estate. Purchase a few native plants for your own garden, take a guided nature walk led by members of NPSO, or just come to enjoy a day outside and the special exhibits and informational booths. Location: 1116 Mission St. SE (12th and Mission) in Salem. Free parking is available off Lee St. For more information, call 503-363-1825 or visit [www.HistoricDeepwoodEstate.org](http://www.HistoricDeepwoodEstate.org).

## William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Laurie Allen at 541-805-0499 for updates and general information.

### Methods

In January 2013, 240 Willamette daisy plants were propagated in the OSU greenhouses. In April 2013, individuals were planted one meter apart in a 30 m x 8 m grid at Finley National Wildlife Refuge. Individuals were randomly assigned one of four



Figure 2: A Willamette daisy transplant

planting treatments, for a total of 60 plants of each treatment: 1. control (no treatment), 2. non-native species removal in a 10 cm radius, 3. non-native species removal in 10 cm radius and mulch additions, and 4. addition of mulch alone. After planting, each plant was watered twice. Monitoring for survivorship took place at the end of June 2013. We measured presence or absence of each individual, the number of capitula (flowering heads), length of longest diameter, width of shortest diameter, and height of tallest leaf. Presence and absence was used to determine survivorship, while the size measurements enable us to look at the fitness of the individuals. We also collected soil moisture data in a subsample of the experimental plantings in an effort to determine how the treatments may have affected the soil microclimate.

Given that this experiment was part of a larger out-planting of Willamette daisy, we were also able to

*continued on page 7*

*Willamette Daisy cont'd from page 6*

compare the outcome of our experiment to survivorship data from 2011 and 2013 daisy out-plantings at the same site.

### Results

Average survivorship for all out-planting treatments was 92% (ranging from 88-96%). Meanwhile, survivorship at the neighboring Willamette daisy plots from 2013 averaged 93.5% survival. Individuals planted in 2011 had survivorship of 94.6% in the first year, and of those, 78.9% survived to the second year. Removing non-native vegetation without mulching tended to produce a larger size (62.2 cm<sup>2</sup>, +/- 9 cm<sup>2</sup>) than all other treatments; average size for control was 40.8 cm<sup>2</sup> (+/- 5 cm<sup>2</sup>), mulch was 44.9 cm<sup>2</sup> (+/- 6 cm<sup>2</sup>) and vegetation removal and mulch was 31.5cm<sup>2</sup> (+/- 4 cm<sup>2</sup>). Vegetation removal yielded average soil moisture of 9.5% volumetric water content (VWC), lower than that of all other treatments (10.5-11.5% VWC).

### Discussion

These results are consistent with the hypothesis that removing competition leads to more robust plants. Our results indicate that direct vegetation

removal was effective in increasing the fitness of the young transplants, likely due to the resulting reduction in non-native competition. All other treatments show no significant effect on individual fitness. None of the treatments show any significant effect on the first year survivorship of the seedlings. Average survivorship at the site was comparable to that seen in the 2012 plantings at that site and the first year survival of the 2011 planting at that site.

Though it was hypothesized that the mulching treatments would decrease competition, thereby increasing survival and fitness, we saw no significant results from this treatment. Mulching is commonly used to increase soil moisture retention and reduce weed competition. In the case of our experiment, it is possible that the amount and type of mulch we used was ineffective, and that other mulching methods may increase soil moisture and reduce weed competition. Further experiments testing a variety of mulching protocols may prove useful in developing more effective Willamette daisy out-planting methods. Alternately, follow-up monitoring may show that in the long term, greater

differences emerge in soil moisture retention and weed competition that lead to more robust, reproductively successful plants.

Previous studies indicate that second year survivorship is a better indicator of the significance of the effect of an outplanting treatment and thereby the likelihood of establishing a reproductive population. With this in mind, it is possible that in 2014, our treatments will express varied survival rates and thus allow a clearer picture of the long term effects of our treatments. We look forward to additional data collection.

### References

Giles-Johnson, D.E.L. 2012. Demography and Management of Willamette Daisy. 2012 Progress Report. Prepared by Institute for Applied Ecology for US Fish and Wildlife Service; Corvallis, Oregon. v + 33 pp.

U.S Fish and Wildlife Service. 2010. Recovery Plan for the Prairie Species of Western Oregon and Southwestern Washington. U.S. Fish and Wildlife Service, Portland, Oregon. Xi+ 241 pp.

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## February 2014 State Board Meeting Highlights

The Board is delighted to welcome the reactivation of the Klamath Basin Chapter and approved the chapter's by-laws with one minor meeting procedure amendment.

Committee reports: Membership renewals are running slightly ahead of last year. The Fellows committee identified newly nominated fellows as Jim Duncan, Cindy Roché, and Bruce Newhouse and all were approved. Cyndi Dion went over the 2013 income and expenses. In addition to the usual income (membership dues, etc.), there was net income of about \$900 from the Eastern Oregon Flora Workshop led by Lucile Housley. The Board approved creation of a restricted fund for workshop proceeds to be used as seed money for future workshops. Thanks to Nancy Chapman, the Shep Wilson book sale also netted about \$900. EarthShare Oregon donations were

about \$200 lower than in 2012. The 2014 budget was approved.

Linda Hardison gave an update on the Oregon Flora Project. For their 20th anniversary, they are publishing the first volume of Flora of Oregon and planning a large fundraising event. They will also release a wildflower app and are working with Master Gardeners and Soil & Water Conservation Districts to raise awareness about using native plants in landscaping and gardens. In addition, they are enacting a citizen science data gathering project.

*Kalmiopsis* needs a new editor. Various options were discussed and it was ultimately decided to try to broadcast the need more widely to secure an editor. The 2014 issue will be published by the editorial board, graciously led by Cindy Roché. Mary Beth Averill and Cecile Shohet presented some results from the Growing NPSO survey. Many

responses noted the importance of education and conservation along with advocacy. A report will be available once the data are more fully analyzed. The Oregon Invasive Species Council is holding a state-wide poster contest for high school students. The Board agreed to give complimentary NPSO memberships to the winners.

On conservation matters, several actions were approved: request a status report from and continued funding of ODA's Rare Plant program; send a letter to the Idaho BLM to protest fuel break seeding with invasive *Kochia prostrata*; join Oregon Wild's petition to put silvery phacelia on the endangered species list; and sign on to a letter urging Congressional action to prevent mining in the Greater Red Flat area.

The next board meeting will be April 19 in Hood River, hosted by the Mid-Columbia Chapter.

# Annual Meeting Student Stipends and Scholarships

The state level of NPSO is offering three stipends of up to \$200 each to college undergraduate or graduate students to attend the 2014 NPSO Annual Meeting in Cannon Beach. We want to encourage more students to be active in NPSO, so we are offering the stipends to help defray some expenses for travel, lodging, food and banquet, membership, and registration. In return, NPSO suggests that each student who receives a stipend write a

short article (about 250-300 words), describing some aspect of the meeting such as the field trip you participated in or the evening presentations, for the *Bulletin*. To apply, please request a copy of the Stipend Application directly from Mary Beth Averill, writeonmba@aol.com. Make sure to indicate NPSO Annual Meeting Stipend in the subject line of your email. Deadline for submitting your stipend application to writeonmba@aol.com by email is May

1, 2014.

In addition to the stipends, four Annual Meeting scholarships covering membership, registration and the banquet are available from the Cheahmill Chapter of NPSO, via a separate application. All interested students are eligible. For information about these scholarships, please contact Lisa Blackburn, npsannmtg2014@gmail.com.

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## Willamette Chapter Scholarship Announcement

### STUDENTS TAKE NOTE

The Willamette Valley Chapter will once again be offering two scholarships for 3rd and 4th year students who will be enrolling in plant systematics or plant ecology at any Oregon college or university for the 2014-2015 school year. Two qualified applicants will be selected to receive \$1,000 from either the Augusta Rockafellar Memorial Scholarship Fund or the Jean Davis Memorial Scholarship Fund. Applications will be accepted by mail until June 1, 2014. Don't let this opportunity pass you by!

### Rules for Scholarship Awards

1. Scholarships are available to students in Oregon colleges, planning their major study in plant systematics or plant ecology.

2. Scholarships are awarded in the amount of \$1,000 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

## NPSO Fellows Awards for 2014

*by the NPSO Fellows Committee*

NPSO's highest award is that of Fellow of the Native Plant Society of Oregon. Since NPSO first established the award in 1998, 25 members of our Society have received this honor with a ceremony and a special plaque presented at the Annual Meeting. We are pleased to announce that our next honorees are Cindy Roché, Jim Duncan, and Bruce Newhouse.

Cindy Roché has been active in her Siskiyou Chapter and has been editor of *Kalmiopsis* for many years. Jim Duncan has served both his Siskiyou Chapter and the State organization for years in many ways. Bruce Newhouse has served on the State Board as President and has been very active in his Emerald Chapter and with the Oregon Flora Project.

Look for more detailed articles about Cindy, Jim, and Bruce in the upcoming *Kalmiopsis*.



# 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:

**Native Plant Society of Oregon**

**P.O. Box 80714**

**Portland, OR 97280**

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 – \$25  Family – \$35

Sustaining – \$60  Patron – \$125  Life Membership – \$500

Subscription Only (*Bulletin* and *Kalmiopsis*) – \$25 *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 Fund \$ \_\_\_\_\_

Augusta Rockafellar Memorial Scholarship \$ \_\_\_\_\_

Rare and Endangered Plant Conservation 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](mailto:Membership@NPSOregon.org).**

## OFFICERS & COMMITTEE CHAIRS

### STATE OFFICERS

DIRECTORS..... Erin Gray, Betty Bahn, Cecile Shohet (to 6/2014); Michael Hartman, Dan Luoma, Kareen Sturgeon (to 6/2015)  
PRESIDENT ..... Judi Sanders ..... [president@NPSOregon.org](mailto:president@NPSOregon.org)  
IMMEDIATE PAST PRESIDENT..... David Lebo ..... [past\\_president@NPSOregon.org](mailto:past_president@NPSOregon.org); 503-622-2008  
VICE PRESIDENT..... Billy Don Robinson ..... [bdmeme@gmail.com](mailto:bdmeme@gmail.com); 503-515-1708  
SECRETARY..... Lisa Blackburn ..... [secretary@NPSOregon.org](mailto:secretary@NPSOregon.org); 503-538-3976  
TREASURER..... Cyndi Dion ..... 897 Hillview Dr., Ashland, OR 97520-3517; [treasurer@NPSOregon.org](mailto:treasurer@NPSOregon.org); 541-482-8603

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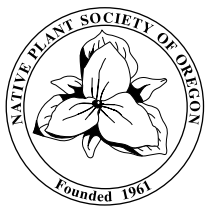
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### STATE COMMITTEE CHAIRS

BUDGETS AND GRANTS ..... Dan Luoma..... 5 NW Edgewood Dr., Corvallis, OR 97330; 541-752-8860  
CONSERVATION, EAST SIDE..... Billy Don Robinson ..... [bdmeme@gmail.com](mailto:bdmeme@gmail.com); 503-515-1708  
CONSERVATION, WEST SIDE..... David Lebo ..... [president@NPSOregon.org](mailto:president@NPSOregon.org); 503-622-3191 ext. 639  
FRIENDS OF OR FLORA PROJECT Linda Hardison..... 2082 Cordley Hall, Corvallis, OR 97331-2902; [hardisol@science.oregonstate.edu](mailto:hardisol@science.oregonstate.edu); 541-737-4338  
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MEMBERSHIP..... Matt Morales ..... P.O. Box 80714, Portland, OR 97280; [membership@NPSOregon.org](mailto:membership@NPSOregon.org)  
NPSO FELLOWS..... Jan and Dave Dobak..... [jddobak@pcez.com](mailto:jddobak@pcez.com); 503-248-9242  
RARE & ENDANGERED PLANTS.... Erin Gray & Cecile Shohet ..... [ecgray830@gmail.com](mailto:ecgray830@gmail.com), [cshohet@gmail.com](mailto:cshohet@gmail.com)

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WEBMASTER ..... Sunia Yang ..... [webmaster@NPSOregon.org](mailto:webmaster@NPSOregon.org)



Send change of address notices  
and membership requests to:  
Native Plant Society of Oregon  
Matt Morales, Membership Chair  
P.O. Box 80714  
Portland, OR 97280

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## Friends of the Oregon Flora Project

There is still time to contribute to our Challenge Fundraising Drive!

March 15 is the cutoff date for donations to be considered for the matching of a \$20,000 challenge. The exciting news is that we have surpassed that goal—as of mid-February we have received \$28,655 in donations! The message I find behind this generosity is twofold: people value the work being done by the Oregon Flora Project, and they recognize the OFP is a collaborative, grassroots program with both scientific content and financial resources coming from the public. The accomplishments that are made when our Flora Project team (that includes YOU!) pulls together are significant. The work we do together meets the pressing needs for accurate and meaningful botanical information in our state.

Your financial support is making these new features available this spring:

- We will be adding a new page to our website with information about gardening with native plants. Another part of our initiative to raise awareness of the OFP among gardeners is providing tags to Master Gardener and Soil & Water Conservation District plant sales that will identify plants as a “verified native species.”
- Our wildflower identification app for iOS and Android devices will be available in time for field season! We have partnered with High Country Apps to create this beautiful, user-friendly guide that covers 950 species across Oregon. Look for availability information on our website.
- Version 1.4 of the Checklist will be electronically published in March. This is the fundamental science that supports the exciting outreach tools described above.

Please use these last weeks of our challenge drive to bring contributions to a record level. The work you fund at OFP is meaningful: it is needed, and it reflects the personal commitment each donor has to value our precious natural resources. Checks can be made payable to Agricultural Research Foundation, with “OFP” on the memo line. Please note the new address: Agricultural Research Foundation, 1600 SW Western Blvd Ste. 320, Corvallis, OR 97333.