



Bulletin

of the Native Plant Society of Oregon

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

VOLUME 46, No. 8

OCTOBER 2013

Friend or Foe? A Perspective on Natural Pest Management

by *Betsey Landis*

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Managing native plant gardens is a learning experience. Let the native plants and native fauna either control, repel, destroy, or adapt to "pests." An established healthy garden is a lively community of plants, insects, birds, reptiles, snails, slugs, worms, small mammals, you, your family, pets, and visitors.

You select new plants for your garden that meet your requirements for beauty, structure, and usefulness. The native plants you select will do well in your garden if your garden has the

right soil texture, nutrients, drainage, room for necessary root growth, suitable sun exposure, and seasonal water supply.

How do you know which garden resident or visitor is friend or foe? Walking around the garden frequently or sitting and watching the garden is the best way to learn. Pest management consists of monitoring life cycle changes in the plant and animal species, the weather, and whether you, as garden manager, are supplying too much or too little water, keeping garden litter

under control, washing off powdery mildew, detritus, and dust from leaves as needed, removing weeds before they flower and seed, and pruning at the best time.

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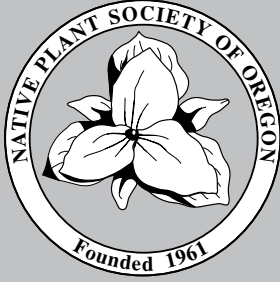


BETSEY LANDIS

Crab spider on chia

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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:
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General Business Address

P.O. Box 902
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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.

Meet the New *Kalmiopsis* Editor

by Hope Stanton

Please welcome NPSO's new *Kalmiopsis* editor and extend many thanks to Cindy Roché for over a decade of dedication to *Kalmiopsis*. —Ed.

I'm really excited to be the new editor. I think *Kalmiopsis* is a great journal and I will try to live up to it. I know there are a lot of folks out there who have great ideas, have explored wonderful places, and are doing fascinating research. Please keep in mind subjects that you might be willing to write about, talks or articles you have heard that would be interesting to our readers, or just subjects we should cover. We are always looking for articles, high quality photographs, recommendations for Fellows, and books to review.

A little about me. I'm more a naturalist than a botanist and have a combined botany and zoology degree from the University of Wisconsin as well as a Master of library science. I have too many interests so know a little about a lot of things. I've been enchanted with wildflowers for as long as I can remember. I was born in St. Louis, Missouri, then moved to the Washington DC area when I was 6. My backyard was huge and carpeted in April with spring beauties - the legacy of a former Eastern woodland. I've loved wildflowers ever since. I've worked in labs, taught environmental education, and been an information specialist. A desire for more space and fewer people led us to buy an old cheese factory on the north Oregon Coast in 1999, where we are still remodeling the cheesemaker's home.



Take Your Best Shot: 2014 Native Plant Appreciation Week Poster Contest

Summer's over . . . but remember all those great photos you took of native plants in Oregon this spring and summer? Now that you're probably spending more time indoors, you could take this opportunity to select the best of your photos and submit them for the Native Plant Appreciation Week Poster Contest. Entries must be submitted online via the NPSO Photo Gallery (<http://npsoregon.org/photos/main.php>) in the album titled "2014 NPAW Photo Contest." Each person may enter two photos of Oregon native plants (photographed in Oregon with photographer name, species or other description, family, common name, location, and date). **All entries must be received by December 15, 2013.** Photos will be rated on subject matter, composition, and technical excellence. Complete details can be found at: <http://npsoregon.org/photocontest.html>. If you have any questions, please email Judi Sanders, judi.sanders@gmail.com.



Join the Native Plant Appreciation Week Committee

The Native Plant Appreciation Week Committee is looking for new members to help promote Native Plant Appreciation Week (NPAW)! The purpose of the committee is to promote activities for NPAW. We also select the photos for the annual NPAW poster. We meet by email so the time commitment is relatively minimal, but since NPAW is our largest single annual public outreach, promoting activities is very important. To join, please email Judi Sanders, judi.sanders@gmail.com.

NPSO CALENDAR

State Notes

NPSO State Board Meeting

October 12, Saturday, 10 am - 2 pm

The next board meeting will be in Portland, hosted by the Portland Chapter. Snacks and coffee will be provided; please bring your own lunch. Location: Multnomah Art Center, room 33 (also known as the Hamilton Room), 7688 SW Capitol Hwy in Portland.

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. Watch for more information in upcoming *Bulletins*.

Blue Mountain

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

Cheahmill

For more information, visit the chapter Web site, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact cheahmillchapternpsocomcast.net.

October 24, Thursday, 7 pm

Talk: Botany on Saddle Mountain and the Northern Oregon Coast.

Coastal plant expert, Kathleen Sayce, of Shaolwater Botanical will be joining us from Willapa Bay, WA to present an overview of plants from along the northern Oregon coast and Saddle Mountain. Learn about NW coastal plant communities and species diversity, historic and current botany adventures, and the role of geology in these coastal ecosystems. The talk will be based upon Kathleen's wonderful *Kalmiopsis* article from Volume 17 in 2010. Doors open at 6:45 pm for socializing, Meeting/Program starts at 7:00 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of HWY 99W and SW 2nd St.). Parking

lot entrances on Adams and 2nd Streets. Information: Luke Westphal, 971-388-9200 or lukeowestphal@gmail.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Alexis Brickner or Kevin Weitemier at co_president@NPSOregon.org.

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. 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>

org or 208-921-0827.

October 14, Monday, 7:30 pm

Talk: Plants that Eat Truffles for Lunch. Dan Luoma, professor at Oregon State's Department of Forest Ecosystems and Society, will describe the fascinating interactions between forest plants and their surrounding mushrooms and truffles. Location: Avery House in Avery Park. Contact Kevin, 208-921-0827, for more information.

October 17, Thursday, 5 - 6:30 pm

Work Party: Avery Garden. The native plant garden around the Avery House needs work to get ready for fall and winter. Bring work gloves, tools, and water to drink. Contact Esther, 541-754-0893, for more information.

October 20th, Sunday, 9 am

Field Trip: Mushroom Forage. Join Loren Russell to search for mushrooms at Marys Peak or to be arranged depending on the weather this fall. Meet at the parking lot SW from the Monroe Beanery at OSU campus for carpooling. Bring appropriate rain gear, a basket, and a lunch or snack. For more information, contact Loren at loren.russell@comcast.net.

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.

The Emerald Chapter meeting location has changed. As of November 21, we will meet at the Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd.

October 21, Monday, 7:30 pm

Meeting: Biographical video, *Finding David Douglas*. Rescheduled date and new location. The compelling story and scientific adventures of the intrepid 19th century Scots botanist, David Douglas, is told in this multi-national initiative filmed on

location in Scotland, England, northern Canada, Hawaii, California, and the Pacific Northwest. This meticulously researched, hour-long documentary is a film portrait of Douglas, for whom our Douglas-fir is named. Douglas explored western North America in a time before white settlement had altered the landscape. He discovered and introduced more than 200 new species to the gardens and forests of Europe. Produced by the Oregon Cultural Heritage Commission in collaboration with the US Forest Service, Forestry Commission Scotland, and numerous scholars and scientists. Location: The Science Factory will co-host this program in their planetarium room at 2300 Leo Harris Parkway, Eugene. For more information call 541-349-9999.

November 21, Thursday, 7:30 pm

Meeting/Talk: Post-fire Vegetation Dynamics in the Northern Sierras.

David E. Hibbs will summarize nearly 20 years of studies of post-fire vegetation change in the northern California Sierras. Using comparisons of vegetation with and without active post-fire management, biologists were surprised several times by the robustness of the vegetation change process. Dr. Hibbs is Associate Department Head, Professor Emeritus of Ecology and Silviculture, in the Department of Forest Ecosystems at Oregon State University. New meeting location: Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off MLK Blvd onto Scout Access Road 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. For more information, call 541-349-9999.

High Desert

This chapter has recently become active. For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby at

541-884-5703 or smalaby@cs.com.

October 21, Monday, 6 - 8 pm

Meeting and Pizza Party: Crater Lake Wildflowers. We will have a slide show on wildflowers of Crater Lake, followed by a meeting to elect officers and discuss the process for reinstating the chapter. Location: United Way building, 136 North Third St., just south of Pine St. in downtown Klamath Falls. For more information, contact Melissa Schroeder: 406-461-5512.

Mid-Columbia

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

October 17, Thursday, 7 pm

Program/Meeting: Denali National Park – Flora and Fauna.

Naturalist Paul Slichter will display images and videos of the diverse array of wildflowers and animal life (both big and small) encountered on his adventures in Denali National Park. There will also be horizon-to-horizon views of the tundra and close-ups of the Alaska Range. Location: Room 1.366, Columbia Gorge Community College, The Dalles.

November 21, Thursday, 7 pm

Program/Meeting: White Salmon River Restoration.

Jeanette Burkhardt, a watershed planner for the Yakama Nation Fisheries program, will describe planting projects at Lyle Falls and the post-Condit White Salmon River: how the projects have gone thus far, some of the challenges that have come up, and

the somewhat experimental things being done at these sites. 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.

October 10, Thursday, 7pm

Program/Meeting: Denali National Park - Flora and Fauna.

Come join naturalist Paul Slichter for an evening of adventure deep in Denali National Park. He will display images and video of the diverse array of wildflowers, animal life (both big and small), and horizon-to-horizon views of the tundra, as well as close-ups of the Alaska Range. Location: Metro Building, see above for details. Contact: Mary Smith at alphiesmith@

Botany and Nature Books Sale Extended

The estate of Shep Wilson, a former president of the Portland Chapter, donated his library of botanical books and related items to NPSO. The State Board decided to sell the donated books to members and others interested and dedicate the funds to the state level of NPSO. Some books were sold at the Annual Meeting; the remaining titles are listed online: <http://www.npsoregon.org/wilsonbooks.html>. Books are listed by author, title, edition, and price (based on average prices on amazon.com). Contact Cyndi Dion, treasurer@NPSOregon.org, to purchase books—they will be sold to the first requester. Make an offer if you feel a price is too high. Cyndi will provide the details for payment and retrieval of the books.

comcast.net or 503-288-4340.

November 14, Thursday, 7 pm

Program: Plants and Habitats of the Salish Sea. Join nationally known botanical illustrator, Dr. Linda Ann Vobrik, for a presentation of the flowers and native plants around the San Juan Islands where she lives. Her botanical artwork will be on display and for sale. Visit Linda's website at <http://www.vobrikbotanicalart.com>. Location: Metro Building, see above for details. Contact: Mary Smith at alphiesmith@comcast.net or 503-288-4340.

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 2013, make a

suggestion, or provide feedback regarding the field trip program please contact Sasha Joachims at: sasharain71@gmail.com.

October 17, Thursday, 7 pm

Program: Native Bee Pollinators. The Siskiyou Mountains are home to more than 100 native bee species. Collectively, they represent the most important pollinators of our native plants and assist honeybees in pollinating our food. Sarah Red-Laird, the Bee Girl, will discuss methods to recognize the major groups, the biology and fascinating social structure of social, semi-social and solitary bees, their natural history (including pollination), and the history of humans and bees. She will also summarize challenges that bees face and what we all can do to help. Location: Southern Oregon University, Science Building, Room 171. Refreshments at 6:45 pm, meeting and program at 7 pm. Free admission. Contact: Kristi, 541-941-3744. Find out about the

incredible work the Bee Girl is doing for bee conservation and education at: <http://www.beegirl.org>.

Umpqua Valley

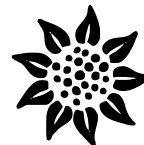
Visit www.umpquavallevynativeplants.com for more information on chapter activities or to be added to our e-mail list.

Willamette Valley

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

William Cusick

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



OTHER EVENTS

Ashland Parks & Recreation

October 5, Saturday

Bear Creek Salmon Festival: Salmon is KING! This admission-free festival features all-ages interactive workshops and exhibits focusing on improving salmon habitat in our region and on watershed stewardship in our homes and yards. Learn where to look for spawning salmon in Bear Creek. Riparian Plant Walk at 2:45 pm. Location: North Mountain Park, 620 N Mountain Ave., Ashland. For more information: <http://www.bearcreeksalmonfestival.net>.

Willamette Valley Hardy Plant Group

October 8, Tuesday, 7 pm

Talk: Ferns from the Woods to the Rooftop. Judith Jones of Fancy Fronds Nursery in Gold Bar, Washington will talk about a range of uses for ferns. Fancy Fronds specializes in temperate ferns. Judith started the nursery in 1977

in response to demand for unusual, as well as difficult to find Northwest native ferns. Doors open at 6:30 for book sales and viewing botanical samples. Admission is \$5 for non-members and free for members. Location: the Campbell Community Center, 155 High St., Eugene. Park in the lot at the corner of 2nd Ave. and High St. For more information: www.thehardyplantgroup.org or call 541-344-0896.

Nob Hill Nature Park

November 2, Saturday, 1 - 4 pm

Volunteer: Invasive Ivy Work Party. The Scappoose Bay Watershed Council and Friends of Nob Hill Nature Park invite you to help remove invasive ivy and add new plants to an area recently cleared at Nob Hill Nature Park. This park is a wooded area overlooking the Columbia River in St Helens. Wear long-sleeve tops, long pants, and work boots. Dress for the weather and bring work gloves, hand tools, water, and snacks. Location: St. Helens wastewater treatment plant, 451 Plymouth St.

Pre-registration is requested; call 503-397-7904 or email Chas McCoy at chas@scappoosebay-wc.org. Directions: Coming from Portland, drive Hwy 30 past Scappoose. At the WalMart in St Helens, turn right on Gable Rd. Bear right on Plymouth St. and stay right until you see the wastewater treatment plant on your right. Park at the water treatment plant across from the park's main entrance. For day of event info, call 503-349-8586.

Sixth Annual Western Native Plant Conference

December 9 - 11, Monday - Wednesday

Conference: Western Native Plants. Add the Sixth Western Native Plant conference to your calendar, with an in-depth agenda covering the science and application of management and restoration with native plants. The full agenda will be available this fall at <http://www.westernforestry.org>. Location: Heathman Lodge, Vancouver, WA.

Siskiyou Field Institute

November 8 - 10, Friday - Sunday

Course: Mushrooms! Learn about the biology, ecology, taxonomy, and field identification of forest mushrooms with David Lebo - edible, poisonous, mycorrhizal, saprotrophic, and parasitic as well as below-ground fungi. Spend Friday afternoon prowling the Illinois Valley for mushrooms. On Saturday, drive the scenic Smith River Gorge and look

for mushrooms both in the Six Rivers National Forest and along the Oregon Coast. Sunday, continue mushroom forays along the Oregon Coast north of Brookings. Tuition: \$140. Advance registration required, call 541-597-8530 or visit www.thesfi.org.

November 18 - 20, Monday - Wednesday

Course: Rare and Sensitive Fungi. Learn about rare and sensitive fungi ranges, habitats, distinguishing

characteristics, and common look-alikes. Course time will include lectures alternating with lab time to examine specimens. A substantial number of species listed as rare and/or sensitive by state heritage and federal agencies are sequestrate (truffles). A field component will address locating these generally subterranean species. Instructor: Scot Loring. Location: Deer Creek Center, Selma. Tuition: \$225. Advance registration required, call 541-597-8530 or visit www.thesfi.org.

Friend or Foe, continued from 1



Powdery mildew on coast live oak

For example, in intense sunlight, pruning to open up dense canopy can cause previously shaded plant leaves and stems to sunburn (sunscald). In extreme heat, growing plant tips or buds may shrivel and soft stems split, appearing diseased. Extremely cold temperatures usually blacken new growth. In either temperature extreme, the entire plant may die. Native plants may recover by sloughing off dead growth or stump sprouting.

Is it surprising that discussions of integrated pest management involve environmental factors affecting soil, drainage, nutrients, heat, cold, and sun exposure? Unless major disturbance (drought, flood, fire, bulldozers) or invasion (alien pests, large mammals) of the garden occurs and disrupts the garden's natural defenses, there is no need to resort to any pesticides or other radical measures.

Which garden inhabitants are "pests," friends, or both? Native plants will tolerate insect damage when the insects supply pollination or other services to the plants later. Consider some caterpillars, messily munching plant parts, but then morphing into butterflies that pollinate flowers and enhance the garden with their beauty. As garden manager, be patient. Discover which caterpillars are essential to the life in the garden and which caterpillars you



Checkerspot larva on monkeyflower

may have to deal with.

Plant species may time their flowering and fruiting cycles so they are completed before an insect is in the most plant-predatory part of its life cycle. Or they may schedule a second period of growth for the more benign or beneficial part of a plant predator's life cycle. Many plants have chemicals in their mature leaves, stems, and roots that repel or are toxic to plant predators.

Don't like flies or beetles? Some

hover fly genera (e.g., *Syrphus*) are pollinators as adults. Their larvae eat aphids and other plant predators. Stink beetles (*Eleodes* spp.) consume decomposing plant material as adults, but their larvae eat plant roots. Rodents and scorpions eat stink beetles. Both larval and adult ladybird beetles (family Coccinellidae) enjoy aphids, mealy bugs, other soft-bodied insects, and mites.

Spiders are essential, fascinating members of the garden community, especially when an insect population explodes. They hide in tunnels and crevices, spin gauzy clumps, cast strong nets of elaborate design, lurk under leaves and petals, or drift through the air on gossamer threads. If you do not like them, respect them as hunters.

Keep in mind that birds and rodents need more food when raising families. A feeding area with seeds and cut-up fruit far from the garden helps lessen impacts of this temporary population explosion on your more vulnerable plants. During spring and summer, visiting the garden shows the resident mammals and birds who is in charge. Observing their feeding activities tells you when to tour the garden to protect your plants, and when not to disturb the creatures eating the plant pests.

Betsey Landis is an author, lecturer, and researcher on California native plants and native plant gardening, and a member of the Los Angeles/Santa Monica Mountains Chapter of CNPS.

July 2013 NPSO Board Meeting Highlights

by Lisa Blackburn, NPSO Secretary

Hope Stanton has volunteered to take on Editorship of *Kalmiopsis*. It was moved, seconded and passed to install Hope as the new *Kalmiopsis* editor.

Jocelyn Duffy is stepping down from production of the *Bulletin*. Cat Mead is willing to take over this responsibility. It was moved, seconded and passed for Cat to replace Jocelyn and to give Cat a complimentary membership.

Mary Beth Averill is resigning as a Director, since she already has a vote at Board meetings as Emerald Chapter President. Erin Gray is willing to take her place as a Director. It was moved, seconded and passed to accept Mary Beth's resignation and to accept Erin as the replacement Director.

Rough and Ready Creek preservation – NPSO has been asked to sign onto a letter to Senators Wyden and Merkley and Representative DeFazio, asking them to support mining withdrawal and introduce legislation regarding Rough and Ready Creek. It

was moved, seconded and passed for NPSO to sign onto the letter.

EarthShare Report - Billy Don Robinson is now on the EarthShare Oregon Board; NPSO earns extra points for his service on the Board. EarthShare Oregon is changing their business model to reduce their overhead costs. The Points system has been streamlined. We can provide NPSO logo items, books, etc. to earn points. It was moved, seconded and passed to authorize Billy Don to spend \$30 per point to bring us up to 75 points (we are currently 4 points short). Billy Don also requested any of the Shep Wilson Estate books with Oregon or Pacific Northwest in the title to give to EarthShare Oregon to help us earn Points.

Treasurer Report – Cyndi Dion reported the Eastern Oregon Flora Workshop brought in about \$900 above costs. Cyndi assigned those dollars to a fund classification dedicated to future workshops. Cyndi reported we have received two checks from EarthShare Oregon that are less than anticipated, and is researching why.

Cyndi Dion said there is some

interest in reviving the Klamath Chapter. There is still about \$900 in an account for that Chapter, and they also have \$200 in the State Budget. Matt Morales (Membership Chair) gave membership lists to both the High Desert and Klamath Chapters for them to use in reviving their Chapters.

Shep Wilson Estate Books - Nancy Chapman (Portland Chapter) has the books and has developed a four page list of them all. Cyndi Dion has a list of people wanting to purchase some of the books, and is willing to continue to receive requests for books. It was decided to do a *Bulletin* article about the books. The cost should be the book price plus postage. It was moved, seconded and passed to empower the people working on this to carry the project through to the end.



Scholarship Awards Given to Outstanding Oregon Students

by Thomas Jenkins, W.V. Chapter Scholarship Chairman

The Willamette Valley Chapter is pleased to announce the scholarship award winners for 2013. Each will receive \$1,000 toward their fall term tuition.

Ashley Shaw of Eugene has been chosen to receive the Augusta Rockafellar Memorial Scholarship. Ashley is an Environmental Science major at Oregon State University, with a focus on Applied Ecology and Resource Management, and a minor in Botany. Her internships include Friends of Trees Eugene and Friends of Buford Park Native Plant Nursery. She aspires to a career involving native habitat restoration. Ashley received very strong recommendations from her mentors and we are happy to help this outstanding student in achieving her academic goals.

Theresa Barosh has been chosen to receive the Jean Davis Memorial Scholarship. Theresa is a graduate student at Willamette University. Besides being a Teaching Assistant, she does volunteer work at the Zena Forest. She is a member of Willamette's Tri-beta Biological Honors Society and the Alternative Agriculture Community Club. She recently completed a semester abroad at the University of Otago, in New Zealand. Her senior thesis will focus on *Camassia leichtlinii* and its newly-discovered interaction with a small herbivorous insect. Theresa is an outstanding individual who is very deserving of this award.

Congratulations to both of our winners! Also, "Thank you very much!" to those who have donated money in support of these scholarships.

ORBIC Guide Updated for 2013

The Oregon Biodiversity Information Center (ORBIC) has released the 2013 update of their guide, Rare, Threatened, and Endangered Species of Oregon. Both Federal and State endangered species status are included, as well as a summary of any name changes and species dropped from the list since 2010. Some of the species no longer on the list (mainly due to being "too common") are: *Cochlearia officinalis*, *Leucogaster citrinus*, *Erioderma soledatum*, and *Schistostega pennata*.

A PDF version is available online at <http://orbic.pdx.edu/rte-species.html>. A print edition is available from Odin Ink, an on-demand printing company. The printing cost is about \$7.50 plus shipping and handling. Call them at 503-546-1773 for more information or to place an order.

Flower Photos from the 2013 NPSO Annual Meeting



All photos by Don Jacobson
From top left: Moneses uniflora, Calochortus eurycarpus, Saxifraga arguta, Iliamna rivularis, Aconitum columbianum, Chamerion angustifolium.

*For more photos from the 2013 NPSO Annual Meeting visit: <http://www.donjacobsonphoto.com/CrawfishLake/CrawfishLake.html>
<http://donjacobsonphoto.com/VinegarHill/VinegarHill.html>
<http://donjacobsonphoto.com/AnthonyLk/AnthonyLk.html>*

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.

OFFICERS & COMMITTEE CHAIRS

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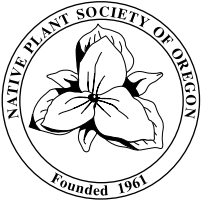
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We are extremely pleased to announce receiving a \$50,000 award from the OR/WA Bureau of Land Management in support of the OFP. Our support of state and federal organizations with current botanical information better allows these agencies to make sound policy decisions that affect all citizens. Thank you, Mark Mousseaux and the state BLM office for leading the way in ensuring sustainability of the OFP and the data we provide!

The money from this grant will support the completion of the monocots for the Flora of Oregon. This is the last segment of information needed to complete the first volume of the Flora, which will contain the monocots, gymnosperms, and ferns—25% of our state's plants.

Your generous contributions, added to the support provided by the BLM, are needed to complete the work that will send this volume to press. Please donate online (<http://oregonflora.org/supportOFP.php>), or with a check made payable to the Agricultural Research Foundation (with "OFP" on the memo line) and mailed to: Ag Research Foundation, Oregon State University, 100 Strand Agriculture Hall, Corvallis, OR 97331-8521.