



Bulletin

of the

Native Plant Society of Oregon

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

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DECEMBER 2014/JANUARY 2015

Who's in that Name? Meriwether Lewis

by Al Schneider, a former English professor who now runs the web site swcoloradowildflowers.com. He has contributed to the Colorado Native Plant Society in a variety of roles.

This article originally appeared in *Aquilegia*, Volume 34, Number 1, the newsletter of the Colorado Native Plant Society. In the July 2014 Bulletin, we looked at brief biographies of three early 19th century botanists (Barton, Pursh, and Nuttall) whose names are now often associated with Meriwether Lewis. In this issue, we look at Lewis.

Meriwether Lewis was born in Virginia in 1774 of a father who fought in the Revolutionary War and was a friend and neighbor of Thomas Jefferson. From early in his life, Meriwether acquired skills, had experiences, and met

people that molded him into a perfect leader and skilled scientist. From early in life he was an avid outdoorsman, often venturing out on hunting trips (in winter or summer, in daylight or dark) with only his dogs. Meriwether's mother's interest in natural history, especially plants, was a model and inspiration to him. At a young age he became a friend of the Cherokee, a fighter in the Whiskey Rebellion (where he served under Clark), and an officer on the Ohio frontier where he became a shrewd observer of the proper -- and improper -- treatment of the enlisted

man. He was well known and so highly respected that when Thomas Jefferson became President of the United States, he asked Meriwether Lewis to be his personal secretary and two years later wrote admiringly of him,

"It was impossible to find a character who to a compleat science in botany, natural history, mineralogy & astronomy, joined the firmness of constitution & character, prudence, habits adapted to the woods, & a familiarity with the Indian manners & character, requisite for this undertaking. All the latter qualifications Capt. Lewis has."

In 1803 Jefferson asked Benjamin Barton, famous botanist, University of Pennsylvania professor, and author of

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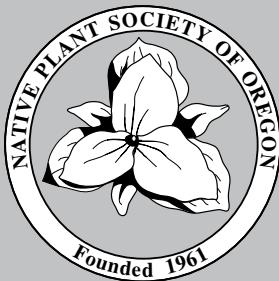


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Lewisia oppositifolia

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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.

Plan Now for Native Plant Appreciation Week

Though the weather outside is frightful, the arrival of spring will be so delightful. While dreaming of spring, it's never too early to start planning for this year's Native Plant Appreciation Week, taking place April 26–May 2, 2015.

This is the largest coordinated public outreach event for the Native Plant Society of Oregon and an excellent opportunity for society chapters throughout the state to sponsor workshops, hikes, plant sales, etc. and help increase their chapter's visibility and membership.

We all get much busier as the weather improves so now is the time to plan. Be sure to post your activities in the NPSO *Bulletin* and to let the NPAW Committee know about them as well. Email any information to Judi Sanders at judi.sanders@gmail.com.

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 February 14, 2015 to ensure that you do not miss out on any of the *Bulletins*. 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 2015 (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 Rockafellar 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.

October 2014 State Board Meeting Highlights

by Lisa Blackburn, NPSO Secretary

At the June board meeting a motion was passed to purchase accident coverage option 2 (\$50,000 coverage for \$515/year). It was moved, seconded and passed to rescind the previous motion because further research found that accident insurance will likely not meet NPSO's needs.

David Atkins, attorney and founder of Nonprofit Support Services in Eugene, spoke to the Board about insurance and liability issues. The NPSO State Board has asked — What are our responsibilities and risk? Should we consider purchasing some type of insurance? Is the structure of NPSO still correct when considering responsibilities and risk? Based on the discussion after Mr. Atkins' presentation, it was determined that NPSO does not need directors and officers insurance but should get general liability insurance. President Kelli Van Norman, Treasurer Cyndi Dion, and Dan Luoma from the Budget Committee will obtain 2–3 new bids for general liability insurance and present them at the next board meeting.

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NPSO CALENDAR

State Notes

State Board Meeting

January 31, Saturday, 10 am-2 pm

The next state board meeting will be hosted by the Corvallis Chapter. Location: 2087 Cordley Hall on the Oregon State University campus, parking information and directions to be provided.

NPSO Annual Meeting 2015

May 29-31, Friday-Sunday

The Mid-Columbia Chapter will host the 2015 Annual Meeting of the Native Plant Society of Oregon in Hood River. Details will appear in future *Bulletins* and online.

Blue Mountain

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

Meetings: The chapter will meet on the 3rd Wednesday of the month, continuing on into next spring. All meetings will be in the Theater Room of The Prodigal Son Brewery in Pendleton.

December 17, Wednesday, 7 pm

Meeting/Talk: Tribal Restoration Project. Umatilla NF Botany Program. Joan Frazee, botany program manager on the Umatilla National Forest, will share program highlights and challenges in TES plants, invasive plants and native plants. Location: Theater Room at The Prodigal Son Brewery, 230 SE Court Ave., Pendleton. No-host food, drink and munchies available.

Cheahmill

For questions, or to be added to the Cheahmill Chapter's email list for reminders of upcoming programs and events, please contact the Cheahmill Chapter President at ch_president@NPSOregon.org.

There will be no chapter meeting in December.

January 22, Thursday, 7 pm

Program: Ecological Studies of the Northern Oregon Cascades. Jake Hurlbert will describe the ecology of the Cascades area, mostly from the Estacada drainage up to Mt. Hood. He will stress the relationship between the members of the Oregon biota, including mushrooms, plants, and a few insects. Hurlbert is a member of several mycological societies in the Pacific NW. Recently he developed eight regional

biota studies of Oregon. 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.). Parking lot entrances on Adams and 2nd. For more information contact: Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

February 26, Thursday, 7 pm

Program: Rock Stars of the Western Cascades. Emerald Chapter member Tanya Harvey will show photos of rock-loving plants that grow in Oregon's Western Cascades. She will talk about the different types of rocky habitats, where they can be found, and share some good locations to look for them. For information about her plant explorations, visit her website, westerncascades.com. Tanya will bring her art, photo cards, and bird ornaments for sale (see tanyaharveydesign.com). 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.). Parking lot entrances on Adams and 2nd. For more information contact: Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Jordan Brown at co_president@NPSOregon.org or 253-820-3934.

December 8, Monday, 7 pm

Meeting: Annual Corvallis Winter Party! Come one, come all and join us for some holiday cheer and appreciation for another year with our native plants and enthusiasts. Please bring some digital images of your botanical adventures and a dessert to share with the group. Location: Loren and Flo will be hosting at their home, 3420 SW Willamette Ave., Corvallis. 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.

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.

December 18, Thursday, 7 pm

Event: Holiday Social and Picture Show. Bring 10 to 12 digital photos and a snack to share if you wish. Come and socialize with others who share your interest in native plants. Meeting location: Conference Room at Lane County Mental Health, see above for directions. For more information call 541-349-9999.

January 15, Thursday, 7 pm

Program: Rock Stars of the Western Cascades. Tanya Harvey will show photos of rock-loving plants that grow in Oregon's Western Cascades. She will talk about the different types of rocky habitats, where they can be found, and share some good locations to look for them. For information about her plant explorations, visit her website, westerncascades.com. Tanya will bring her art, photo cards, and bird ornaments for sale ([see tanyaharveydesign.com](http://tanyaharveydesign.com)). Location: Conference Room at Lane County Mental Health, see above for directions. For more information call Kim at 541-726-8057.

February 19, Thursday, 7 pm

Program: Knobcone Pine and KMX (Knobcone x Monterey Pine Cross) in Lane County. Charlene Simpson tells us about recent Lane County sightings of knobcone pine further north than previously documented. We may have an identification problem. Perhaps we are seeing the hybrid knobcone x Monterey pine cross created by geneticists for the forest products industry. To be accepted for listing by the Oregon Flora Project a taxon must be reproducing

and maintaining away from cultivation. Location: Conference Room at Lane County Mental Health, see above for directions. For more information call 541-349-9999.

High Desert

For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnpso@gmail.com.

Klamath Basin

For information on the Klamath Basin Chapter, visit <http://klamathbasinnps.com> or contact the chapter president, Melissa Schroeder, kb_president@NPSOregon.org.

December 4, Thursday, 6 pm

Meeting: Holiday Potluck. Bring your favorite dish and an electronic copy of your favorite (up to 10) plant photos from 2014! Location: Klamath Falls Nature Conservancy office (226 Pine St.). See the chapter website for more information.

Happy New Year! There will be no chapter meeting in January.

February 5, Thursday, 6:30-7:30 pm

Meeting/Talk: Williamson River Delta Restoration. Chapter president, Melissa Schroeder, will give a talk on The Nature Conservancy's ongoing restoration efforts in the Williamson River Delta. Location: Oregon Institute of Technology Campus, DOW Center for Health Professions, Room 252.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at mc_president@NPSOregon.org.

December 18, Thursday, 7:30 pm

Meeting: Holiday Cheer! Bring a contribution for our holiday gathering. We will also have a discussion of our chapter organization (for the Handbook) and a final chance to group-edit the plans and materials for the annual meeting we're hosting in May. Location:

Room 1.366, Columbia Gorge Community College, The Dalles.

There will be no chapter meeting in January.

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.

December 11, Thursday, 7 pm

Program: Member's Party — Slide Sharing. Come with your electronic slides of native flora from Oregon and beyond for our annual year end celebration of the wildflower season. Bring holiday goodies to share. Non-members are welcome. Meeting location: Metro building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

January 8, Thursday, 7 pm

Program: Larkspurs in the Wake of the Flood: Flower Color Diversification in a PNW Wildflower. Keith Karoly, professor of biology at Reed College, will discuss his current research on the evolution of native larkspurs in the Columbia River Gorge and western Oregon, with an emphasis on understanding how events since the last Ice Age have shaped their current diversity and distribution. For more information, visit his website: academic.reed.edu/biology/professors/kkaroly/research.html. Meeting location: Metro

building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

February 12, Thursday, 7 pm

Program: (Rescheduled from November 2014) Forest Park: Portland's Greatest Natural Resource. Biologist Marcy Houle will discuss the natural ecology of Portland's Forest Park, one of the world's largest urban parks and our nation's only urban wilderness. Marcy has researched Forest Park for over 30 years and will highlight its history, detail the five things that make this park unique, and explain how we, as stewards, can protect its native plants and animals. Marcy will be selling her book, *One City's Wilderness: Portland's Forest Park* (3rd Ed). Meeting location: Metro building, see above for details. For information, contact Mary, 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 2015, make a suggestion, or provide feedback regarding the field trip program, please contact Sasha Joachims at: sasharain71@gmail.com.

December 11, Thursday, 6:00 pm

Holiday Potluck: Silent Auction and ANWR. Jeff Jones is co-author of *Arctic Sanctuary: Images of the Arctic National Wildlife Refuge* and has been photographing this vast, remote area since 1990. Learn more at lumnos.com. Program begins around 7 pm. Bring a potluck dish, table service (plate, silverware, glass, cup) and packets of seeds for the native plant seed exchange. Location: Talent Community Center, 206 E Main in Talent. Information: contact Dave at 541-535-5355.

January 15, Thursday, 7 pm

Program: Celebrating the 50th Anniversary of the Wilderness Act at 50. Celebrate past victories, explore the value of wilderness, and identify present and future obstacles to expand Oregon's wilderness. Bridget Callahan

will highlight the botanical treasures of the Kalmiopsis Wilderness and discuss current campaigns to expand wilderness protections in Oregon including the Crater Lake Wilderness Proposal. Bridget is the wilderness campaign organizer for Oregon Wild. A native Oregonian, she graduated from the University of Oregon in 2008 and has since worked for political campaigns and conservation organizations across the state. Refreshments at 6:45, meeting and program at 7 pm. Location: Southern Oregon University, Cascade Science Bldg. (the old Cascades Dorms), Room CSC 114. For a campus map, visit: sou.edu/map. For more information, contact Kristi at 541-941-3744.

South Coast

This is a newly formed chapter. For more information, contact the chapter president, Alexis Brickner, sc_president@NPSOregon.org.

Umpqua Valley

Visit www.umpquavalley.npsoregon.com for more information on chapter activities or to be added to our email 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 Susan Geer at 541-963-0477 or Emelie Montgomery-Jones at 541-963-3339 for updates and general information. Chapter notices and communications are done primarily through a Google group. Members are reminded to contact Susan or Emelie if they want to be added to the Google group, or if they do not have internet access and want to be contacted by phone for events.

UPCOMING NATIVE PLANT SALES

Yamhill Soil and Water Conservation District

February 5-7, Thursday-Saturday

Both bare root and container plants will be available. Order forms and plant descriptions will be on-line in December. For more information, visit yamhillswcd.org or call 503-472-6403.

Benton Soil and Water Conservation District

February 21-22, Saturday-Sunday, Order by January 31

Each February the District distributes native plant seedlings at low cost to encourage the use of native vegetation for erosion control, windbreaks, landscaping and wildlife habitat enhancement. Place your order by December 31 using the paper order form, or by January 31 on-line. Pick up your plants on February 21. If you miss the order deadline, come to the native plant market on

February 22, noon–3 pm. All plants at the market are \$3. Cash or check only. Many volunteer opportunities are available to help us prepare for and run the native plant sale. For more information, visit bentonswcd.org/programs/plant-sale or call 541-753-7208 to ask for a paper order form.

East Multnomah Soil and Water Conservation District

Late February, Order in January

Our annual native plant sale is a great way for you to landscape your yard with inexpensive, bare-root native trees, shrubs and ground covers. We typically open the sale for online pre-orders around the first weekend in January. The pre-order period remains open for about 3 weeks, and then plant pick-up day is generally the 3rd or 4th weekend in February. For more information, visit emswcd.org/native-plants/native-plant-sale.

Meriwether Lewis, cont'd from page 1
the first United States botany textbook to teach Meriwether Lewis the latest botanical knowledge and techniques for the 1804–1806 Expedition. Eventually Lewis carried a copy of Barton's book on the Expedition and he returned it to Barton inscribed with a note of thanks after the Expedition.

Lewis was an avid naturalist before he studied with Barton; after the studies he was skilled and driven. In the words of Earle Spamer and Richard M. McCourt (on *The Lewis and Clark Herbarium CD* produced by the Academy of Natural Sciences of Philadelphia):

"Meriwether Lewis had the soul of a plantsman. A typical day on the trail found him looking for plants along the Missouri River and in the surrounding Great Plains. Or near a campsite in a mountain meadow of the Rocky Mountains. Or at the salty mouth of the Columbia River where it drained into the Pacific Ocean. In dangerous places and at inopportune times, Lewis collected plants. So long as circumstances permitted, even in improbable situations, he collected. It was not only his duty to collect, it was his

passion. Equally remarkable, he wrote with enthusiasm about them in the voluminous journals and in numerous notes on the blotting papers used to dry the plants."

Lewis' descriptions could be brief but were often detailed. The following is from his account of *Clarkia pulchella*, named by Frederick Pursh in honor of expedition co-leader, Captain William Clark:

"... The corolla superior consists of four pale purple petals which are tripartite, the central lobe the largest and all terminate obtusely; they are inserted with a long and narrow claw on the top of the germ, are long, smooth & deciduous. There are two distinct sets of stamens the 1st or principal consists of four, the filaments of which are capillary, erect, inserted on the top of the germ alternately with the petals, equal short, membranous; the anthers are also four each being elevated with its filament, they are linear and reather flat, erect sessile, cohering at the base, membranous, longitudinally furrowed, twice as long as the filament [and] naked, and of a pale purple color. the second set of stamens are very minute,

are also four, and placed within and opposite to the (them?) at the base, membranous, shorter than the filaments, white, naked and appear not to form pollen.... This has the appearance of a monopetalous flower growing from the center of a four petalled corollar."

We can imagine how Lewis worked. He clipped or pruned plant parts or uprooted entire specimens, and placed them in a dry oilskin bag. Later, laying the plants flat on a specimen page, Lewis sandwiched them between pages made of blotting material. He recorded the collection locality, date, and habitat on the blotter paper itself, along with occasional comments on how the Native Americans ate or used the plants. Lewis then stacked the plants between two boards and tied the plant press together with straps. Lewis probably placed the plant press near the evening fire, where warm air helped dry the collection. Over the course of several days, water was squeezed from the plants, and, once dry, specimens were kept flat and dry in another press.

Much later, other botanists glued the specimens to high-rag content



Clarkia pulchella, classified and named by Frederick Pursh. Illustration from *Flora Americae Septentrionalis* by Pursh.



Lewisia cotyledon

herbarium sheets and stored them in protective cabinets in a museum. Those from the Aylmer Lambert Herbarium in London were mounted in or after 1812. The sheets bear a distinctive watermark (illustrated by Cutright, 1967: 82). The unmounted specimens found in the American Philosophical Society were mounted in the Academy in 1921 by John M. Fogg, Jr. (Fogg, 1982). If kept dry and free from insects and physical damage, such specimens last for centuries, as Lewis's specimens have for the last 200 years.

Unfortunately much of the botanical collection from the Lewis and Clark Expedition was, after all of Lewis efforts to dry the specimens, lost in varying places and varying ways. For instance, early in the Expedition, Lewis sent Jefferson about 60 specimens; Jefferson in turn sent these for analysis to Barton, who Jefferson had asked to do the botanical descriptions of the Expedition collections, but about half of the sixty specimens disappeared and have never been found.

A far larger loss came with the destruction of the plant collection that Lewis made on the way up the Missouri River in the spring of 1805. Lewis stored hundreds of these specimens in a specially dug cache in the ground, from which he intended to retrieve them on the way down river. The cache was flooded in the spring of 1806 and by the time Lewis opened the cache on July 13th, 1806, fungus had destroyed countless hours of his work on hundreds of specimens. Lewis

must have been shattered by the loss. Barton, who had been considered for the Expedition but not asked to participate because of his questionable health and his old age (37), was not able to work on the returned collections -- apparently because of his health and a predisposition to procrastination. Bernard McMahon, renowned horticulturist, respected scientist, and friend of Jefferson, Barton, and Frederick Pursh, suggested to Jefferson that Pursh would be suited for the job of organizing and describing the collection. It would then fall to Lewis to put everything into an organized narrative. In 1807 Lewis met Pursh, was very impressed, and paid Pursh about \$70 to begin the work. Pursh completed his end of the work in a little more than a year, returned most of the collection to McMahon, took some of the collection to England, and there published the collection (along with many other plants from other collectors) in his 1814 *Flora Americae Septentrionalis*. All but a few of the Expedition specimens which Pursh had taken with him were bought at auction years later and returned to the United States.

The total number of Expedition plants known now is 237, all but eleven (those in the Kew Garden Herbarium in London) are in the Academy of Natural Sciences in Philadelphia -- where both Lewis and Pursh began their Expedition botanical work.



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Linum lewisii

December 2014/January 2015

Tragically, Lewis had been feeling increasingly troubled, pressured, and distraught in the years after the Lewis and Clark Expedition and he was unable to fulfill his own and Jefferson's expectations for publishing the results of the Expedition. He completed almost no work on the Expedition narrative. In 1809 he committed suicide.

A number of Colorado native plants honor Lewis in their names: [These plants are also native to Oregon, as well as *Lewisia columbiana*, *L. cotyledon*, *L. leeana*, *L. oppositifolia*, *L. rediviva*, *L. triphylla*, and *L. x whiteae*] *Lewisia nevadensis*, *Lewisia pygmaea*, *Mimulus lewisii* [synonym of *Erythranthe lewisii*], and *Adenolinum lewisii* [*Linum lewisii*]. Many more plants found in Colorado [and in Oregon, unless otherwise noted] were first found for science by Lewis: *Purshia tridentata*, *Sarcobatus vermiculatus*, *Phacelia heterophylla*, *Lomatium triternatum*, *Gaillardia pinnatifida* [not found in Oregon], *Balsamorhiza sagittata*, *Anticlea elegans*, *Ribes aureum*, *Erigeron*

continued on page 8



IMAGE COURTESY OF MISSOURI BOTANICAL GARDEN; BOTANICUS.ORG

Mimulus lewisii. Drawn and engraved by W. Hooker, for *Flora Americae Septentrionalis* by Pursh.

State Board cont'd from page 2

Field trip liability waivers need to be saved for 5 years. The signed waivers should go to the chapter secretary. President Kelli Van Norman will add trip safety protocols and waiver retention to the NPSO Handbook. Each chapter must ensure that field trip leaders follow the field trip safety protocols and correctly use the liability waivers for every trip. The safety protocols and liability waiver are easily accessible on the website.

A committee (Cyndi Dion, Sunia Yang, Matt Morales, and Jason Clinch) researched options for on-line NPSO membership payments. The Board decided to create a line item on our budget and choose a provider at the next Board meeting. Selection criteria include the ability to make donations to other funds (OFP, Leigh-ton Ho, etc.), pay dues, and have the ability to collect information needed for the NPSO membership database.

EarthShare Oregon — Billy Don Robinson will stay on the EarthShare board, but will no longer be NPSO liaison for EarthShare. Kelli Van Norman will be the liaison in the interim.

Kalmiopsis will be moving to an on-line format. Unless someone steps up to serve as editor, the journal will go dormant after the next issue. An announcement will be put in the *Bulletin* to let members know that *Kalmiopsis* will not be printed as a hardcopy issue.

The South Coast Chapter is now official with the State of Oregon; it still needs to establish a bank account.

Chapter Presidents are encouraged to take the information about the Oregon Flora Project challenge grant from NPSO back to their chapters.

Meriwether Lewis, cont'd from page 7
compositus, Calochortus elegans (not found in Colorado, but the first *Calochortus* found for science), *Cleome serrulata* [synonym of *Peritoma serrulata*], *Chrysanthemus nauseosus* [synonym of *Ericameria nauseosa*], *Lupinus pusillus*, *Lupinus argenteus*, *Ipomopsis aggregata*, *Claytonia lanceolata*, *Shepherdia argentea*, *Erythronium grandiflorum*, *Achillea lanulosa* [synonym of *Achillea millefolium*], *Grindelia squarrosa*, *Paxistima myrsinites*, *Sambucus coerulea* [synonym of *Sambucus nigra*], *Machaeranthera pinnatifida* [not found in Oregon], *Lilium philadelphicum* [not found in Oregon] (first western specimen).

*There are many books and many on-line sources about Lewis and Clark; three excellent on-line starting points are *The Academy of Natural Sciences of Philadelphia* [now *The Academy of Natural Sciences of Drexel University*] web site, Stuart Wier's "Guide to Sources of Information on Lewis and Clark", and "Discovering Lewis and Clark." For the most extensive collection of on-line Lewis and Clark documents see the "American Journal." (Some of the biographical information about Lewis, Pursh, Barton, and Nuttall in this *Aquilegia* article comes from the above sources.)*

2015 NPSO Annual Meeting

May 29-31

in Hood River

Save the Date!

Information and registration will be in the February *Bulletin*



NPSO/EarthShare Oregon Liaison Volunteer Needed

EarthShare Oregon (ESOR) is a workplace fundraising entity for environmental organizations. NPSO is a member group and as such we receive funding through ESOR. We are looking for an NPSO volunteer to be our liaison to ESOR. The main tasks are to coordinate the annual affiliation agreement in the spring and to track points earned by NPSO. This is a key position as we rely on these funds to support NPSO field research grants, Institute for Applied Ecology interns, Oregon Flora Project, publishing the *Kalmiopsis* journal, and mailing out the *Bulletin*. If you are interested, please contact Kelli Van Norman, president@npsoregon.org.



Lewisia rediviva

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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 _____

Check to receive electronic *Bulletin*, sent by email in lieu of paper.

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 \$ _____

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

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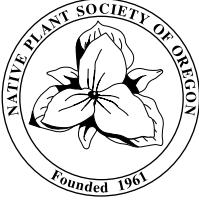
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The OFP is in the midst of a huge accomplishment wrapped in an equally large challenge: we are ready to publish Volume 1 of the *Flora of Oregon*, and need to raise the funds necessary to print it. These publication costs are above our normal operating expenses of all staff and student salaries and direct costs. In addition to your regular charitable support of the OFP, we are asking that you make a special contribution toward the printing of the *Flora of Oregon*. An extra gift now (through the end of the year) will have twice the impact: your donations will be matched by a challenge grant from the state NPSO for up to \$10,000.

Volume 1 of the *Flora of Oregon* will cover the ferns, gymnosperms, and monocots, and have chapters addressing ecology, contemporary and historic botanists, and places to explore Oregon's botanical diversity. There will be color photographs of plant habitats, and over 460 botanical illustrations. This will be the first illustrated flora of our state, and the first comprehensive treatise written in over 70 years!

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