



Bulletin

of the

Native Plant Society of Oregon

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

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NOVEMBER 2003

Sorting out Oregon's *Synthyris*

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S*ynthyris*, a small genus in Scrophulariaceae, is familiar to Oregon botanists. Six of the twenty-one species of *Synthyris* are distributed throughout the state. *Synthyris* is endemic to Western North America, from Colorado to Alaska to Mexico. The name comes from the Greek, Syn = fused or together, and thyris = valve, in reference to its capsule.

I studied the systematics of *Synthyris* as part of my senior thesis at Oregon State University. What drew me to the group are its morphology, and an apparent radiation followed by a depletion of populations to localized mountain areas, an example of "island" biogeography. My study focused on two

groups in the genus. The first being *S. cordata* and *S. reniformis*, where molecular analysis showed that there are two distinct lineages that we recognized as species (outlined further below). The second part of my research focused on the species in the *missurica* complex (*S. missurica* ssp. *missurica*, *S. missurica* ssp. *major*, *S. missurica* ssp. *hirsuta*, and *S. stellata*). In this study I found that *S. missurica* ssp. *hirsuta* is a synonym of *S. stellata*. My research took me to three of the four corners of Oregon, along with California, Washington and Idaho. Through all of my field work, I believe that I have a better understanding of the species of *Synthyris* as they occur in Oregon, along with a better

understanding of Oregon's amazing and diverse flora. The scope of this paper is to summarize what I have learned about the species of *Synthyris* in Oregon, followed by an identification key.

David Douglas discovered the first species placed in the genus *Synthyris*, *S. reniformis*, near Cascade Locks. Its range is southern Washington, continuing along the Coast Range and

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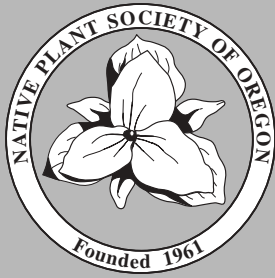


Synthyris cordata

AARON LISTON

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Native Plant Society of Oregon

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Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

NEW MEMBERS

3/1/03 - 10/10/03

At Large

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Josh O'Brien
Cindy Salo

Corvallis

Kathy Brewer
Judy Butts
Nancy Hart
Jennifer Hooke
Edward Jensen
Debora Johnson
Louise Marquering
Steve Swenson

Emerald

Phyllis Fisher
Tim Flowerday
Matthew Frey
Judith Gabriel
Steve & Debbie Gibson
Kevin Ashley Higgins
Wanda Jerrit
Howard Kopp
Lisa Lynch
John & Penny Maciolek
Holly & Matt McRae
Rebecca Minifie
Nancy Moss
Trent W. Musgrove
Katherine Neall
Lucas Nipp
Marjolein Schat
Michelle Smesrud
Gayle L. Smith
David Stone
Alisa Villarreal

High Desert

Jim & Carole Bradfield
Lesley Jones
Marjorie Kocher
Paul C. MacMillan
Sue McClelland
Robin Vora

Mid-Columbia

Valerie S. Berry
Carol Fashing
Paulette Lefever Holbrook
Tom Maertens

North Coast

Don & Sue Cannard

Portland

Heather Arndt
Holly Beare
Cecille & Gary Beyl
Janice Dodd
Alicia Emel
Christie Galen
Catherine Glass
Matt Gordon
Woody Gray
Renee Harber
Greg Henderson
Jane Henry
Cynthia & Steven Jones
Don Leedy
Colin MacLaren
Jan Main
Heather Marsters
Barbara McCormick
Mary McGilvra
Shela Perrin
Carol Robillard
Ivy Carrie Schlegel
Jennifer Seamans
Victoria Cloud Sears
Kyle Spinks
Amy Sutton
Patrick Taylor
Jonathan Whitley
Nate Wintle
Joe Yuska

Siskiyou

Irene S. Bernstein
Alan Horobin
Lyn Levin
Lusetta Nelson
Armand Rebisckhe
Peggy Smith
Ric Thowless
Hanspeter Witschi

Wm. Cusick

Douglas Shorey

Willamette Valley

Angela Brandt
Sharon & Larry Gray
Carolyn Huff

State

January 24, Saturday

Board of Directors Meeting: at the Nature Conservancy office in Portland. More details will be posted later.

June 25–27, 2004

Annual Meeting: The William Cusick and Blue Mountain Chapters will host next year's meeting in La Grande.

Blue Mountain

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

Cheahmill

November 9, Sunday, 9:00 am

Workshop: Mushroom Identification Primer. Begin to identify the major families of gilled mushrooms (the agarics) and main two genera of boletes. Several prominent species will also be covered. Two hours of presentation and one hour of hands-on practicum are included. Bring your own collections to the workshop for identification. 9:00 am–12:00 pm at Linfield College, Murdock Hall 208. \$25/participant, payable at the workshop. Register by e-mail (jmurphy@linfield.edu) or phone (503-883-2704) at least 7 days prior to the workshop. Just give the names and numbers of people you are registering.

November 20, Thursday, 7:00 pm

Meeting: The Tillamook Story—Preserving the Rainforest in Our Own Backyard. Lyndon Ruhnke of the Tillamook/Clatsop Rainforest Coalition will give a presentation regarding the protection of our state lands. The mission statement for the coalition includes providing clean water, abundant fish and wildlife, recreational opportunities and livable communities with healthy economies. 7:00 pm in the Carnegie Room at the McMinnville Public Library, 225 N. Adams Street.

For more information contact Erin Rainey, 503-435-8589 or erin.rainey@baileynursery.com.

Corvallis

November 1, Saturday, 8:00 am

Field Trip: Valley of the Giants and vicinity. Corvallis area folks meet at the OSU parking lot SW of the Beanery, 26th and Monroe, Corvallis, at 8:00 am. This field trip is also convenient for members of the Willamette Valley and Cheahmill Chapters who can meet us at 9:00 am at Fern Corner, the intersection of Kings Valley High-

way (223) and Falls City Rd. There will be a good deal of driving on gravel back roads under potentially adverse weather conditions. Contact Dan Luoma at 541-752-8860 for details.

November 10, Monday, 7:30 pm

Meeting: Is Wildfire Good or Bad for Rare Plants? What we're learning in the Siskiyou Mountains with *Umpqua swertia* in the Biscuit fire of 2002. Tom Kaye of the Institute for Applied Ecology will share preliminary observations from post fire monitoring. 7:30 pm at the Avery House, Avery Park, Corvallis. For more information please contact John Syring at 541-752-0414.

Emerald

November 24, Monday, 7:30 pm

Meeting: Fighting the Good Fight—The Biological Control of Weeds in Oregon. Join Oregon Department of Agriculture entomologist Eric Coombs for his talk and find out why Oregon tops the nation in successful utilization of biological control of noxious weeds. Research and a careful screening process play a large role, but then, so do the insects! Come meet a few hungry weevils, moths, and beetles and watch the purple loosestrife, dalmation toadflax, and diffuse knapweed disappear. 7:30 pm, Room 115, Science Building, Lane Community College, 4000 E. 30th, Eugene.

December 15, Monday, 7:30 pm

Meeting: Annual Members Slide Show/Christmas Get-together. Bring 5–10 slides and some snacks to share, if you wish. Come admire others' slides if you don't have your own. 7:30 pm, Room 115, Science Building, Lane Community College.

High Desert

For information on the High Desert Chapter, contact Reid Schuller at 541-317-1901.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

Klamath Basin

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

Mid-Columbia

November 5, Wednesday 7:30 pm

Meeting: Exotic Dancers on our Roadsides. Noxious weeds in our midst. Our annual study and quiz of the noxious weeds that we need to be aware of, and involved in controlling. An update on weed problems in the Columbia Gorge. All are welcome. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

December 3, Wednesday 7:30 pm

Meeting: Berried Treasure, Wild Edible Fruits, Nuts, and Berries from our area. A study of the natural bounty that grows wild in our region, with a look at Ethnobotany, and contemporary ethical harvesting. Jams, jellies, nutbreads, and wine-tasting included. All are welcome. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.



TANYA HARVEY

Goldenrod (Solidago canadensis) and Pine Whites are some of the last sights of summer.

North Coast

For information on the North Coast Chapter, contact Janet Stahl at 503-842-8708 or jjs@oregoncoast.com.

Portland

November 11, Tuesday, 7:00pm

Meeting: Native Plants of Mt. Rainier. Peter Kendall will be presenting our chapter with visual delights from his extensive slide collection. His treat for us will feature native plants on Mt. Rainier. Personally, I can't wait! For more information please contact Dee White at 503-775-2909. First United Methodist Church, Fireside Room (#355) located at 1838 SW Jefferson St. in Portland.

Siskiyou

November 20, Thursday, 7:30 pm

Meeting: Who pollinates the clustered lady's slipper orchid, and why? *Cypripedium fasciculatum*, the clustered lady's slipper, is one of three *Cypripedium* species endemic to the western United States. Speaker, Carol Ferguson, will discuss attempts to unravel the relationship(s) between clustered lady's slipper orchids and insects. Carol, Kathleen Donham, Harold Berninghausen, Jocelyn Franklin, Tom Keevil and Matt Lee have studied the pollination biology of this orchid at various field sites in the orchid's range since 1998. Room 171, Science Building, Southern Oregon University in Ashland. For more information call Cynthia Maclaren at 541-482-0899.

Umpqua Valley

November 1, Saturday, 8:00 am

Field Trip: Three Mile Lake in Oregon Dunes. Short hike to view huge Sitka spruce and associated vegetation; and, if time permits, take a huckleberry excursion. Car pool or caravan from BLM, 777 Garden Valley Rd., Roseburg at 8:00 am. Or meet at 10:00 am at Oregon Dunes National Recreation

Area Headquarters, Highways 101 and 138. For information call Richard Sommer at 541-440-0612.

November 13, Thursday, 7:00 pm

Meeting: Lichens, Mosses & Liverworts. Mercy Medication Center Community Education Bldg., 2459 Stewart Parkway, Roseburg. We will invite W. Clayton Frazer as a guest speaker however, his acceptance hasn't been confirmed. Members are requested to bring a sample of lichen or moss to share with the group. For information call Richard Sommer at 541-440-0612 or Ted Shattenkerk at 541-679-6953.

November 15, Saturday, 9:00 am

Field Trip: Lichens, Mosses & Liverworts. Meet at the BLM parking lot, 777 Garden Valley Blvd., Roseburg, prior to 9:00 am departure. For more information called Richard Sommer at 541-440-0612 or Ted Shattenkerk at 541-679-6953.

Willamette Valley

November 15, Saturday, 9:30 am

Meeting: Landscaping with Native Plants Workshop. The Willamette Valley chapter of NPSO and the Marion County Soil and Water Conservation District are jointly sponsoring a half-day workshop at the Salem Public Library (Anderson Room) on landscaping with native plants. Topics include: What is a native plant; Native plant sources and selection; Attracting butterflies; and Invasive species—what not to plant. Seating is limited to 80 participants. Door prizes include native plants and handouts about tending native plants provided by local nurseries. Pre-register with Diane, Marion County Soil and Water Conservation District, 503-391-9927.

William Cusick

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

OTHER EVENTS

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events. To register or to get more information on these and other events at the garden call Kris at 503-636-4112x22 or visit their website at <http://www.berrybot.org>.

Fall Fungi in the Belton Family Forest November 6, Thursday, 9am-4pm

Field mycologist Maggie Rogers will guide us through the mysteries of the fungal world as demonstrated by a host of fall mushrooms and lichens. This is also an opportunity to learn about sustainable forestry, one potential answer to environmental damage caused by large-scale clear cutting. John Belton opens his 90 acres of wooded hills near Sandy for this moderate hike. \$10 (\$8 BBG Members).

Tualatin Hills Nature Park's Fall Native Plant Sale

November 8, Saturday, 12 - 4 pm 15655 SW Millikan Blvd., Beaverton

Fall is the best time of the year to plant. Select from a wide variety of trees and shrubs in all price ranges for every spot in your garden. All proceeds go towards future park improvements. For more info call 503-644-5595.

Lane Checklist Updates Available at Emerald Chapter Website

At the time Emerald Chapter published *The Lane County Vascular Plant Checklist*, they noted that it was a "snapshot" in time. New species and localities are regularly discovered and recent research has brought new understanding of taxonomic relationships which involve renaming genera and species.

Twice a year, in the months of March and October, Emerald Chapter pulls together updates to *Vascular Plants of Lane County, Oregon: An Annotated Checklist, 2002*. Additions, Deletions and Other Changes – Installments #1 (October 2002); #2 (March 2003); and #3 (October 2003) are available in downloadable format at Emerald Chapter's website <http://www.emeraldnpso.org/>

Mount Pisgah Arboretum Events

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

Mushrooming on the Mountain Workshop November 8 & 9, Saturday & Sunday, 10am-4pm

This intensive class for beginning 'shroomers offers instruction on identification, picking, cooking, ecology, folklore, and more! Maggie Rogers of the Oregon Mycological Society leads the class with slideshows, interactive demonstrations, discussion, and field identification. Fee: \$60. Pre-registration required.

Pine Needle Basketry Workshop November 15, Saturday, 10am-3pm

Learn history, techniques, and skills for creating your own beautiful basket with Pam Roberts, a talented local crafter and instructor. Materials provided. Fee: \$30. Pre-registration required.

Perspective and Shadows in Sketching Natural Landscapes November 15, Saturday, 1-4pm

This class, taught by natural science illustrator Kris Kirkeby, will teach you the basics of checking for proper scale and angles used to show perspective. You'll also learn to show light on form. Weather permitting, we'll work outside to put shadows into perspective in the natural world. Fee: \$20. Pre-registration required.

Mushrooms in the Field: a guided walk

November 16, Sunday, 10am-1pm

Join Bruce Newhouse & Peg Boulay of the Cascade Mycological Society for a walk along the Arboretum's forested trails, and learn to identify fungi. Suggested donation \$3. Meet at the Visitor Center, rain or shine.

Dried Flower Workshop November 22, Saturday, 1-3pm

This workshop provides an opportunity for you to create a unique and beautiful handmade woven basket with the help of expert florist Bethany Little, operator of U-pick Flowers on Seavey Loop Rd. All materials are provided. Fee: \$20. Pre-registration required.

Trees: An Arboreal Tour of Oregon and Beyond

November 24, Monday, 7-8pm, followed from 8-9pm by the MPA Annual Meeting

An Oregon Council for the Humanities Chautauqua Program. Horticulturalist Nancy Appling provides the answers to many intriguing cultural and tree-related questions in an arboreal tour of Oregon and beyond. Held at EWEB's Training Center (500 E. 4th Ave. in Eugene). FREE.

Willamette National Forest Nature Walks

November 7, Friday Mushroom Hike at Hackleman Creek Old Growth Grove

Enjoy a few easy miles in old growth forest known for its fungal diversity. Date subject to change-weather dependent. Bring lunch, water, and raingear; transportation is provided. Fee \$10.00 (\$5.00 with Golden Age/Access Card). Sign up in advance by calling Noel Bacheller at 541-367-9230.

Sorting out Oregon's *Synthyris*

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western Cascade Mountains to northern California. *Synthyris reniformis* is the most common and, arguably, the best known species in Oregon. What makes it stand out is that it is one of the first plants to flower each year, sometimes as early as February!

Synthyris cordata is also known as *S. reniformis* var. *cordata*, or considered a synonym of *S. reniformis*. These names reflect disagreement over its relationship to the more widespread *S. reniformis*. A recent study has shown that it is a distinct lineage derived from *S. reniformis* (Schenk and Liston, 2003). *Synthyris cordata* is endemic to decomposing serpentine soil of southwestern Oregon and northwestern California. The morphological characters that distinguish it from *S. reniformis* are narrower leaves and unicellular hairs in the inner corolla tube.

In Oregon, *Synthyris schizanthus* is located only in Clatsop County, though the species does occur in the Olympic Mountains of Washington. Its common name, fringed kittentail, is due to the petals being sharply toothed along the margin. Because of its narrow range, this species is of conservation concern in Oregon (ONHP, 2001). *Synthyris schizanthus* is the only species that occurs in Oregon that we did not include in our study because it is not

part of any groups that we worked on.

Lewis and Clark first collected *S. missurica* ssp. *missurica* during their famous journey in 1805. The specimen was collected on the Hungry Creek, which Frederick T. Pursh thought was a tributary of the Missouri River (Schaack, 1988). The range is disjunct in Oregon, occurring in the Willowa Mountains and the Blue Mountains in northeastern Oregon as well as in the Warner Mountains of Lake County and adjacent California. It can be speculated that the genus was once more widely distributed, and has since experienced range depletion (Stebbins, 1942). This species is also found in Idaho, Washington, Montana, and California.

Though it does not occur in Oregon, the subtaxon *S. missurica* ssp. *major* should be mentioned. This subtaxon is distinguished most notably by the larger leaves, as well as a greater number of flowers. *Synthyris missurica* ssp. *major* grows sympatrically with *S. missurica* ssp. *missurica* in Idaho, Washington, and Montana.

Synthyris stellata is also of conservation concern in Oregon (ONHP, 2001). *Synthyris stellata* is endemic to the Columbia River Gorge. The loss of habitat due to invasive plant species following habitat disruption is the greatest threat to *S. stellata*. However, not all is hopeless. Where it naturally occurs it seems to be well established provided the habitat remains undisturbed. It is rare on the Washington side of the Gorge, occurring mostly on moist slopes of the Oregon side.

Synthyris stellata is closely allied to *S. missurica*, and sometimes treated as *S. missurica* ssp. *stellata* (Hufford, in press).

Synthyris missurica ssp. *hirsuta* was named by Francis W. Pennell in 1933 from a specimen

collected by Thomas Howell in 1881. The specimen was sold to Benjamin H. Smith in Pennsylvania, later being donated to The Academy of Natural Science after his death, where it now resides. The description of this taxon was based on a single specimen. The herbarium label (not written in Howell's handwriting; personal observation) gives the collection site as "Oakland, Oregon", and it is identified as *S. rotundifolia* (now *S. reniformis*). Since it is only known from its type specimen, this species is considered endangered or extinct. Pennell hypothesized that further specimens would be located (Pennell, 1933), but since his description botanists have attempted to relocate the plant to no avail (OSU Herbarium rare plant archive).

Pennell used the pubescence along the peduncles and pedicels, and the larger flowers (6-7mm) as defining characters. However, both of these traits can be seen on herbarium sheets of *S. stellata* (ORE98574, Halse 1460; OSC116833, Chambers 2075). In the same specimens of *S. stellata*, the flowers are measured to be 6-7mm, equal to *S. missurica* ssp. *hirsuta*. The type specimen is not in good condition, lacking leaves that would give further evidence to its identity. However, it does have peduncle bracts that are identical in size and shape to those found in *S. stellata*. Most likely the specimen was mis-labeled, collected in the Columbia River Gorge rather than in Oakland, which Pennell speculates in his original publication. Therefore, based on pubescence, flower size, and bracts, there is enough evidence to conclude that *S. missurica* ssp. *hirsuta* should be recognized as a synonym of *S. stellata*.

Synthyris rubra has nomenclaturally fluctuated between the genera *Synthyris* and *Besseyia*. Traditionally, it has been placed in *Besseyia* more often than *Synthyris*. *Besseyia* has long been speculated to be part of or closely allied to *Synthyris*, the primary difference being the reduced corolla. In their paper, Hufford and McMahon (in press) show strong molecular support that *Besseyia* is part of *Synthyris* and therefore should be recognized as such.

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TANYA HARVEY

Synthyris stellata along the Columbia Gorge.

Sorting out Oregon's *Synthyris*

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Like *S. reniformis*, *S. rubra* was discovered by David Douglas, though collected in Washington State.

Literature Cited

Hufford, L., M. McMahon. In Press. Systematic Botany. Morphological Evolution and Systematics of *Synthyris* and *Besseyia* (Veroniceae, Scrophulariaceae): A Phylogenetic Analysis.

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Stebbins, G.L. 1942. The genetic approach to problems of rare and endemic species. *Madroño*, 7:241-258. Oregon Natural Heritage Program (ONHP). 2001.

Rare, Threatened and Endangered Species of Oregon. Oregon Natural Heritage Program, Portland, Oregon.

Acknowledgements

This article is written as part of the Native Plant Society of Oregon Field Research Grant. I am thankful to the NPSO, as well as the NPSO Portland and Siskiyou Chapters for their support. I am also indebted to Aaron Liston for mentoring this project. I would also like to express my gratitude to the following for their assistance with the project: Larry Hufford (WTU), Richard R. Halse (OSC), Katherine Norman, Portland Garden Club, Oregon State University Research Office (URISC Grant), ANS, ID, JEPS, SOC, UC, WTU herbarium for loaned specimens, and the USDA Forest Service Regions 5 and 6 for collecting permits.

Below is an artificial key containing all of the species of *Synthyris* that occur in Oregon:

- 1a. Inflorescence erect in flower and fruit; peduncle bracts along with floral bracts present; more than 10 flowers per inflorescence.
 - 2a. Corolla reduced; leaves elliptic, dentate-crenate; inflorescence a dense cluster up to 85(+) flowers; peduncle bracts reduced in series towards apex; sepals and ovary tomentose.

Synthyris rubra (Douglas) Benth. in DC.
 - 2b. Corolla regular; leaves rounded, margins various; peduncle bracts not reduced in series toward apex; pubescence various.
 - 3a. Corolla margin dissected; bracts 1.5-6.0cm.

Synthyris schizantha Piper
 - 3b. Corolla margin entire; bracts no greater than 3.0 cm.
 - 4a. Leaf blades margin mostly once toothed; peduncle not greatly pubescent towards apex; bracts usually 0.4 – 0.6 cm long, 0.2 – 0.4cm wide.

Synthyris missurica (Rafinesque) Pennell ssp. *missurica*
 - 4b. Leaf blade margin double toothed; peduncle slightly pubescent to greatly pubescent towards apex; bracts 1.0 – 3.0 cm long, 1.2 – 3.0 cm wide.

Synthyris stellata Pennell
- 1b. Inflorescence reclinate, though sometimes erect in early flowering; peduncle bracts absent, floral bracts present; usually 10 or fewer flowers per inflorescence.
 - 5a. Leaf blades mostly cordate and narrow (though individual leaves can be wide); inner corolla tube pubescent, consisting mostly of unicellular puberulent hairs; growing on serpentine substrate.

Synthyris cordata (A. Gray) A. Heller
 - 5b. Leaf blades generally reniform and consistently wider; pubescence of inner corolla tube consisting mostly of multicellular hairs that are easily seen with unaided eye, usually exerted from corolla tube; growing on non-serpentine substrate.

Synthyris reniformis (Douglas ex Bentham) Bentham

Friends of the Oregon Flora Project



www.oregonflora.org

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Send your contributions to:

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P.O. Box 402, Corvallis, OR 97339-0402.

Please make checks payable to
NPSO, attn: Oregon Flora Project.

Highlights of the NSPO State Board Meeting, September 20 in Bend

by Kelli Van Norman, Secretary

Reid Schuller, the new President for the High Desert NPSO Chapter, graciously hosted the Board at Central Oregon Community College. We were also told that Stu Garrett from the High Desert Chapter has been awarded the 2003 Earth Star award from the Central Oregon Environmental Center, a composite of all the local environmental groups. Congratulations to Stu from the Board. Stu has been instrumental in representing NPSO's goals of plant and habitat conservation in central Oregon.

We are pleased that Clayton Gautier has volunteered to be the next Membership Committee Chairperson. It will be difficult to fill Jan and Dave Dobak's shoes after their 12 years of service, but we know that Clay is up to

the job. The busy time of year for the Membership Chairperson is coming up as we approach renewal time. Be sure to renew your NPSO membership for next year. Our membership in June was 859 and increased to 889 in September. Let's keep NPSO growing.

Dave Dobak also told the Board about a letter he found while cleaning out Membership Committee files. The letter was dated May 9, 1973 to the NPSO Secretary from Rhoda Love inquiring about membership in NPSO. NPSO is lucky that Rhoda has been a dedicated volunteer for 30 years now.

The big news of the meeting is that NPSO has received a \$7,000 grant from the Bureau of Land Management (BLM) for *Kalmiopsis*. The 2004 issue of *Kalmiopsis* will be a theme issue of

featuring BLM Areas of Critical Environmental Concern (ACEC's) as Oregon Plants/Oregon Places articles. There will be an article from each of the nine BLM Districts in Oregon.

Bob Ottersberg, Eastside Conservation Coordinator, told the Board that attempts to privatize federal activities continues. It is time to start reviewing contracted work regarding sensitive species in the same vein EAs and EIS documents have been reviewed in the past. There is also concern that we continue to see botanists leave the state and federal agencies as budgets are cut. The Board urges the Chapters to be involved in local conservation issues that support the NPSO mission and to coordinate with the regional conservation coordinators as needed. We would also like to see articles in the *Bulletin* about what is happening at the Chapter level regarding conservation.

A mix of news was reported from the Chapter Presidents. Mid-Columbia Chapter has had a successful year of meetings by presenting hands-on workshops. Two of Cheahmill Chapter members recently wrote a book on *Teaching Ecology in the Parks of Yamhill County*, to be used by teachers, home schoolers, and parents alike who take children into the parks to experience nature. Many Chapters are experiencing difficulty recruiting volunteers for leadership positions. Emerald Chapter remains vigorous, but has not had a President for quite a while. On a good note, Corvallis Chapter has a new president, OSU graduate student John Syring, who is taking over for Esther McEvoy. Two of our smallest Chapters, William Cusick and Blue Mountain are jointly planning the annual meeting for next year, which will happen in La Grande during the last weekend of June 2004.

The next Board of Directors meeting is scheduled for Saturday, January 24, 2004 in Portland. All Board members, Committee members, and Chapters Presidents should attend, as we will be reviewing the 2004 budget.

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send \$15 payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2003). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. \$3 postpaid.

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilyn Karbonski. Short sleeve,

high quality, \$15 plus shipping. For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

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

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____
 Address _____
 City _____ State _____ Zip+4 _____
 Phone _____ E-Mail _____
 Chapter (if known) _____

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.
 Membership is for the calendar year. New memberships enrolled after
 September 1 include the following year.

- New Renewal
 Student – \$12 Regular – \$18 Family – \$24
 Sustaining – \$50 Patron – \$100 Life Membership – \$500
 Subscription Only (*Bulletin* and *Kalmiopsis*) – \$18 *Only for those who wish to subscribe, but do not want to have full membership status.*

Is this a change of address? If so, please write your old address here:

Address _____
 City _____ State _____ Zip+4 _____

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund	\$ _____
Leighton Ho Memorial Field Botany Award Fund	\$ _____
Rare and Endangered Plant Fund	\$ _____
Friends of the Oregon Flora Project	\$ _____

Please make checks for dues and contributions payable to:
 NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:
Clayton Gautier, NPSO Membership Chair
 3927 Shasta View St.
 Eugene, OR 97405-4442

Membership in the Native Plant Society of Oregon is open to all.
 Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

OFFICERS & COMMITTEE CHAIRS

STATE OFFICERS

DIRECTORS (to 6/2004) Clayton Gautier, Elaine Plaisance, Veva Stansell (to 6/2003)..... Dan Luoma, Michael McKeag, Charlene Simpson
 PRESIDENT Bruce Newhouse2525 Potter, Eugene, OR 97405; 541-343-2364
 IMMEDIATE PAST PRESIDENT Michael IgoP.O. Box 603 Mosier, OR 97040
 VICE PRESIDENT Rhoda Love393 Fulvue Drive, Eugene, OR 97405-2706; 541-345-6241
 SECRETARY Kelli Van Norman.....secretary@NPSOregon.org, 503-236-8787
 TREASURER Candice Guth.....1816 SE 34th Ave., Portland, OR 97214-5033; 503-235-0617

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker58840 Bar M Lane, Adams, OR 97810-3003; 541-566-2244
 CHEAHMILL Marilyn KarbonskiP.O. Box 291, Carlton, OR 97111-0291; 503-852-7230
 CORVALLIS John Syring.....2630 NE Seavy Circle, Corvallis, Oregon 97330-4236; 541-752-0414
 EMERALD (Eugene) Position vacantcontact John Koenig; 541-343-0707
 HIGH DESERT (Bend) Reid Schuller..... 62615 Stenkamp Road, Bend, OR 97709; 541-317-1901
 KLAMATH BASIN Sarah Malaby.....smalaby@cs.com; 541-884-5703
 MID-COLUMBIA Jerry Igo P.O. Box 603, Mosier, OR 97040
 NORTH COAST..... Janet Stahl.....9780 Whiskey Creek Rd., Tillamook, OR 97141; 503-842-8708
 PORTLAND Mandy Tu.....821 SE 14th Ave., Portland, OR 97214; imtu@tnc.org
 SISKIYOU Chris Van Schaack.....429 Morton Street, Ashland, Oregon 97520-3047; 541-488-9174
 UMPQUA VALLEY (Roseburg)..... Ted Schattenkerk.....3805 Hwy. 42, Winston, OR 97496-9554; 541-679-6953
 WILLAMETTE VALLEY (Salem) Position vacantcontact Karl Anderson; 503-315-7329
 WM CUSICK (La Grande) Frazier Nichol.....c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; 541-963-7870

STATE COMMITTEE CHAIRS

EDUCATION Jerry Igo.....P.O. Box 603, Mosier, OR 97040
 CONSERVATION, EAST SIDE Bob OttersbergP.O. Box 885, La Grande OR 97850; 541-963-6043
 CONSERVATION, WEST SIDE..... Steven L. Jessup.....208 Harrison St., Ashland, OR 97520-2920; 541-552-6804
 LEGISLATIVE Position vacant
 MEMBERSHIP..... Clayton Gautier3927 Shasta View St, Eugene OR 97405-4442; membership@NPSOregon.org
 BUDGETS AND GRANTS Dan Luoma3740 NW Harrison, Corvallis, OR 97330; 541-752-8860

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 KALMIOPSIS EDITOR Cindy Roché109 Meadow View Drive, Medford, OR 97504, crupinaqueen@charter.net
 WEBMASTER..... Michael Hartmanwebmaster@NPSOregon.org



Send change of address notices
and membership requests to:

Native Plant Society of Oregon
Clayton Gautier, Membership Chair
3927 Shasta View St.
Eugene, OR 97405-4442

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Openings on NPSO Board of Directors

by Veva Stansell, Nominations Committee Chair

Nominees are being sought for year 2004 for these positions: President, Vice President, Treasurer, Secretary, and three Directors-at-large. Officer positions are for one year; at-large positions are for two years. Serving on the Board is both enjoyable and rewarding! You get to rub shoulders with other NPSOers 4 times a year from all over the state, and be in the center of Oregon's "human plant community"! NPSO is an organization full of responsible and cooperative people, making Board service rewarding—and your fellow members will appreciate you for helping NPSO fulfill our goals of education and conservation.

Nominations should be reported to the Committee by November 23, 2003. Nominees must give their

consent to be on the ballot. Names of nominees will be reported to President Bruce Newhouse by December 1. Nominees will be asked for a short biographical sketch which will be published in the January *Bulletin*.

The ballot will be enclosed with the March *Bulletin* and mailed to paid-up NPSO members.

Please send nominations to any of the following:

Veva Stansell, 541-247-7153
vstansel@harborside.com

Dick Brainerd,
brainerd@peak.org

Esther Gruber McEvoy,
estherco@peak.org

New NPSO Membership Chair

Clayton Gautier has very graciously stepped forward to take over the Membership Chair duties for NPSO. His contact information can be found in the *Bulletin*, in the list of "Officers & Committee Chairs" and on the web page. Please send all changes of address and missing *Bulletin* mailings to him (not the *Bulletin* editor!). Thank you, Clayton!!!

Jan and Dave Dobak are "retiring" after 12 years. Many thanks to them both for their years of hard work on the Membership Committee.