Bulletin of the Native Plant Society of Oregon

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

VOLUME 33, NO. 7 JULY 2000

Plant Profile: *Dicentra formosa* F: Papaveraceae

by Celeste Coulter and Kristine Hulse, Botany students, Lane Community College

One of the most intriguing wildflowers, native to the Willamette Valley, is *Dicentra formosa*, commonly called the Pacific Bleeding Heart. The swollen heart-shaped flowers fall elegantly, from a long stalk in a cluster above a peaceful cover of light green, fern-like leaves. A close look at the *D. formosa* flower will reveal two pinkish-mauve outer petals forming the heart, enclosing two inner petals. Towards the mouth of the flower, six stamens surrounding a pistil emerge slightly from the inner petals. The name of *Dicentra formosa* is derived from the Greek word *di*, meaning two; *kentron*, meaning spurred –in reference to the saccate base of the outer petals; and *formosa*, the Latin word for beautiful[1]. The common name Bleeding Heart is in reference to the red juice that exudes from the plant when it is injured.

The basal leaves of *D. formosa* are divided into narrow oblong segments, and just below in the soil, lays the plant's long succulent rhizome[2]. These large rhizomes are easily propagated by dividing them in early spring before flowering or later after the plant has flowered. Seeds can be collected and sown in August or early September (Rose et. al. and references therein, 1998). The average height of *D. formosa* is 5 to 18 inches. It is found in moist woods, mainly in the lowlands and lower slopes of the mountains, along stream banks, ravines and in wet open sites, displaying its flowers from March through July[3].

Interactions with other species are of special interest in the Pacific Bleeding Heart. We were not able to find any references in the literature to the pollination biology of *D.formosa,* but stamens have nectariferous tissue on the filaments (Stern 1997) and a moth has been observed visiting the flowers (David Wagner, personal communication). The fruit of *Dicentra formosa* is a capsule that contains many black-pebbled seeds with an appendage rich in lipids, proteins, starches, sugars and vitamins. These fleshy bodies (elaiosomes) make the *D. formosa* seeds irresistible to ants who transport them to their nests to consume the outer appendage. The actual seed is not attractive to the ants so they discard it, leaving it in prime position for germination, tucked just beneath the soil. Also, during transport some of seeds are clumsily dropped by the hungry ants, thereby increasing their dispersal range (Raven et al., 1999). *Dicentra formosa* is also the host plant for the larvae of *Parnassius clodius*, a butterfly that wears three dark gray bars on its forewings and two red spots on its hind wings. The females will lay single eggs throughout the plant and the caterpillars will feed on the base of the plant at night. *Parnassius clodius* takes flight once in its lifetime, within the months of June and July[4].

Dicentra formosa was originally in the Fumariaceae (Fumitory) family, until recently, when it was submerged into the Papaveraceae (Poppy) family. According to *The Jepson Manual, Higher Plants of California,* the family change was due to its shared characteristics with the genus *Papaver* of the Papaveraceae. *Dicentra* more closely resembles this genus than *Papaver* resembles other genera in the Poppy family (Hickman ed., 1993). Acknowledging the differences would have resulted in four new families, however in order to simplify, related groups were kept together resulting in the elimination of Fumariaceae.

The Pacific Bleeding Heart contains toxic chemicals such as protopine, corydine, isocorydine, bulbocapine,

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Native Plant Society of Oregon

World Wide Web
http://www.NPSOregon.org

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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.

Eastside Conservation Chair Still Needed!

The Native Plant Society of Oregon is still looking for a new Eastside Conservation Chair. Stu Garrett has been in this position for several years, and is moving on to other tasks—creating a space for an enthusiastic volunteer (or two!) who wants to work on behalf of NPSO on conservation issues. Recent examples are providing input for long-range conservation strategies for Steens Mountain, as well as providing occasional analysis and input regarding US Forest Service, BLM and State of Oregon policies affecting native plant habitats east of the Cascades.

If this interests you, contact Stu at garrett@coinet.com or Bruce Newhouse (President) at newhouse@efn.org

Native Species/ Community Garden Coordinator Needed

A part-time, temporary position is available for coordinator of Northwest Youth Corps' Community Garden and Native Species Nursery. These are alternative education programs in Eugene for youth (12-18 years) to learn the fundamentals of sustainable agriculture, while developing and maintaining a two-acre community garden and a native species nursery. The Community Garden program works in conjunction with teams of youth in NYC's OutDoor School, an alternative high school completion program, and YouthWorks AfterHours and Summer Programs.

For More Information Contact

Windy Arey Kent
YouthWorks Program Director
Northwest Youth Corps
nyc@nwyouthcorps.org
541-349-5055 ext. 221
or check out the NYC website at www.nwyouthcorps.org.

Kalmiopsis Needs Assistant Editor

Kalmiopsis is the annual journal of NPSO, which contains a variety of interesting articles about Oregon botany and botanists. Our current editor would like an Assistant Editor to train, with the eventual goal of the Assistant becoming the Editor in time. Publication and editorial experience is a must; computer skills and email address mandatory.

This is a great opportunity for someone to get involved with botanical projects, events, and research occurring in Oregon. If you are interested, please e-mail the *Kalmiopsis* Editor, Linda Vorobik, at vorobik@rockisland.com.

Ideas Wanted for a New *Bulletin* Name

Please keep submitting your ideas for a new name for the Bulletin. We would like to gather the ideas and vote on the best suggestions later on in the year. Any name that fits in with our purpose and distinguishes us from other organizations is welcome. Send any ideas to the Bulletin Editor at bulletin@NPSOregon.org.

Double white form of Camas leichtlinii *in the garden.*

Blue Mountain

For information on the the Blue Mountain chapter call Jerry Baker at 541-566-3381

Cheahmill

For information on the Cheahmill chapter call Kareen Sturgeon at 503-472-0866.

Corvallis

July 8, Saturday

Field Trip: Iron Mountain/Cone Peak Loop. Spectacular, botanically-rich area west of Santiam Pass. Forest and meadow wildflowers will be the main attraction. 4-5 mi., moderate hike. Meet at 9:00 am, OSU parking lot, SW of the Beanery, 26th and Monroe, Corvallis. Call Dan Luoma, 541-752-8860 for more information.

July 15, Saturday

Field Trip: Mary's Peak with Frank Hall. We will visit a stand of old growth trees 450 years old and also bush whack to a nearby spring. Wear long pants, bring a lunch, appropriate hiking gear, and water bottle. Meet at 10:00 am at the parking lot across from the Monroe Beanery. We will return late afternoon. Contact Esther McEvoy for information 541-754-0893.

Emerald

July 1, Saturday

Field Trip: Patterson Mountain, east of Dexter, has a wide range of habitats for a short hike. There is a large wet meadow, a dry meadow, beautiful old growth forest and a rock outcropping with a view of Lookout Point Reservoir. The trail is a fairly easy 1.7 miles to the top (some blow downs on the trail this year). Meet at the South Eugene High School at 9:00 am or at the Demeter's Corner Store and Café parking lot in Dexter (just off Highway 58) at 9:30 am. After the hike, Tanya Harvey's garden will be open in Fall Creek for anyone interested. The garden is naturalistic woodland and rock garden with many natives. For more info, call Tanya, 541-937-1401. Hike is cosponsored by the Emerald Chapter of the North American Rock Garden Society.

July 8, Saturday

Field Trip: First Annual Milkweed Drive. We will conduct a windshield survey of southern Willamette Valley milkweed populations, followed by a mapping party (and pizza?). Meet at South Eugene High School parking lot at noon. Bring binoculars. Pre-registration required. Call Sue Mandeville at 541-746-1805 to register.

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. 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.

July 9, Sunday

Field Trip: Moon Point to look for *Cercocarpus ledifolius*, *Asarum wagnerii* and *Lilium pardalinum*. Led by Kim McMahan and Jenny Lippert. Meet 9:00 am South Eugene High School or 10:00 am Middle Fork Ranger Station (old Rigdon Ranger Station). For more information, call Jenny, 541-465-6321.

July 15, Saturday

Field Trip: Grasshopper Meadows, north of Oakridge, is part of an extensive trail system that connects with the Chucksney Mountain Trail so the trip can be whatever length people are up for. The trail goes through vast sloping wildflower meadows looking out at Diamond Peak.Meet at the South Eugene High School at 9:00 am or at the Demeter's Corner Store in Dexter at 9:30 am. After the hike, Tanya Harvey's garden will be open in Fall Creek See info for July 1 trip.

July 22, Saturday

Field Trip: Blair Meadows, a wildflower paradise northeast of Oakridge, led by Barbro McCree. Easy walk and optional swim in Blair Lake. Meet 9:00 am at South Eugene High School parking lot or 10:00 am, Middle Fork Ranger Station (old Rigdon Ranger Station). For more information, call Peggy, 541-744-0439.

July 23, Sunday

Field Trip: Butterflies and their host plants. This trip to Iron Mountain will focus on the identification of butterflies and learning about the ecological interactions between butterflies and their host plants. Iron Mountain is a spectacular place for both wildflowers and butterflies. Bring close-focusing binoculars if you have them. Meet at South Eugene High School Parking Lot, 8:00 am, co-leaders: Eric Wold and Bruce Newhouse. Trip is limited to 20 people. Call Eric at 541-431-7388 to register.

July 29, Saturday

Field Trip: Swamp flower and sedge expedition to Beaver Marsh at the edge of Diamond Peak Wilderness. Led by Nick Otting and Jenny Lippert. Meet 9:00 am at South Eugene High School. Bring hand lens, waterproof boots, and be ready for mosquitos. For more information call Nick, 541-334-4499, or Jenny, 541-465-6321.

High Desert

Amateurs and experts are equally welcome! Unless otherwise noted (and please be sure you check!) all trips will depart from the north end of the main parking lot on the east side of Pilot Butte State Park off of Hwy 20 (Greenwood St.) in Bend at 8:30 am sharp. Please arrive a few minutes early to form carpools. On one-day trips we will normally return to the parking lot by 5:30 pm. Be sure your gas tank is full, bring plenty of water, rainwear, a sack lunch, a day pack, and sturdy shoes. Consider bringing layered clothing, sunscreen, a handlens, cameras, binoculars, etc. Weather may be severe, trails can be rugged, and roads are sometimes poor. Unless noted, roads should be passable by a normal clearance passenger sedan. Riders are encouraged to reimburse drivers a total of 25 cents per mile. Please be aware of user charges for the Deschutes National Forest. Please: no smoking, no picking or collecting of plants, and no pets. Remember, you participate at your own risk.

July 8, Saturday

Field Trip: Glaze Meadow prescribed burn and Old Growth. This area at the foot of Black Butte is one of the most scenic on the Deschutes National Forest. We will see the rare Peck's Penstemon, hike through old growth Ponderosa pine stands and explore the meadow that was burned last year to help the penstemon. An easy 4-mile walk. Meet at Pilot Butte in Bend at 8:30 am and at 9:00 am at Sisters Ranger District parking lot. Call Stu Garrett for details: eves 541-389-6981

July 15, Saturday

Field Trip: Oregon Atlas Project Survey - Brown's Spring. This will be one of our surveys to look at poorly-botanized areas in order to develop information for the Oregon Plant Atlas Project. We will take several hours to key-out and identify plants in this beautiful area off Century Drive in the Deschutes NF. All are welcome. Easy 2-mile walk. Meet at the Deschutes National Forest Supervisors Office parking lot near Pilot Butte at 8:30 am. Call Caroline Lindstedt 541-382-3237 for details.

July 22, Saturday

Field Trip: Oregon Atlas Survey - Oregon Cascades Recreation Area. Caroline Lindstedt and USFS botanist Carolyn Close will lead a moderate hike to either the subalpine areas around Maiden Peak or to lower elevation lakes to botanize for the Oregon Flora Project. All are welcome. This is a rarely visited area that should be full of surprises. Meet at Crescent Ranger District at 8:30 am or call Caroline about a Pilot Butte carpool. Call Caroline for details. 541-382-3237

August 5, Saturday

Field Trip: Many Lakes/Cultus Lakes Basin. Join expert botanist/ecologist Reid Schuller on a moderate 5-mile round-trip hike on the Many Lakes Trail. This is a spectacular area in the Three Sisters Wilderness featuring bogs and lakes. Reid is the world's expert on sedges of the Central Oregon Cascades! Be sure to call early to reserve spot on the trip as only 12 people can travel together in the Wilderness. Be ready for mosquitoes! Meet at Pilot Butte Parking Lot at 8:30 am. Call Reid at home: 541-317-1901 or work: 541-317-0199 to do the required pre-registration.

August 26, Saturday

Field Trip: Broken Top Volcano. This is our annual trek to view the spectacular glaciated scenery and alpine wildflowers in the High Cascades west of Bend. This is a six-mile round-trip, moderate-to-strenuous hike with a 1,700 foot elevation gain. We will do mostly off-trail hiking through the Three Sisters Wilderness, so hiker numbers are limited to 12. Meet at Pilot Butte Lot at 8:30 am. Pre-registration is required! Call trip leader Stu Garrett for sign-up: eves 541-389-6981 The sooner the better!!

For more information, write or call field trip chairman, Stu Garrett, 1501 NE Medical Center Dr, Bend, OR, 97701, 541-389-6981 evenings. On trips where participant numbers are limited, preference will be given to NPSO members. Permission is granted to newsletters, newspapers, and magazines to reprint field trip information as long as enough information is provided to fully inform the public.

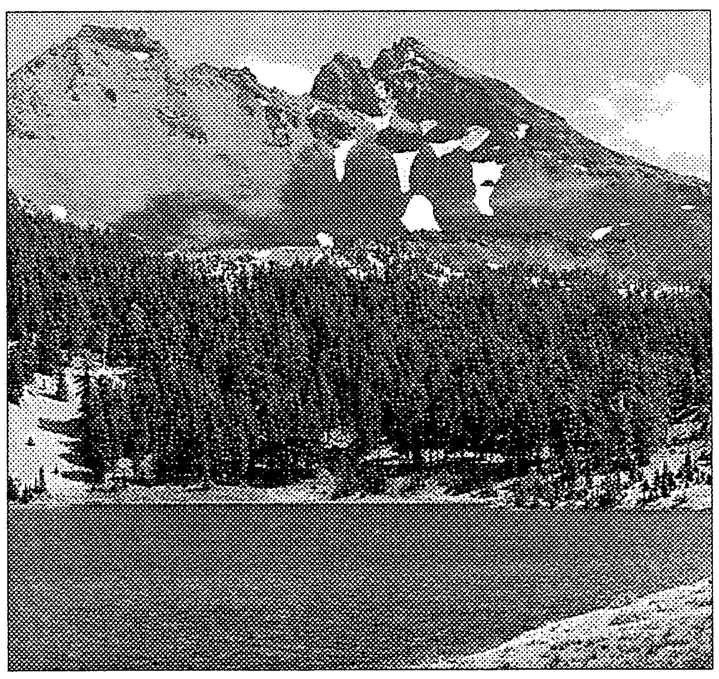
Klamath Basin

For information on the Klamath Basin Chapter, call David Lebo at 541-883-8393.

Mid-Columbia

July 5, Wednesday

Meeting: Our Annual Potluck! 6:30 pm at Jerry Igo's beautiful pine-oak acreage and cabin. Bring your favorite dish. Directions: I-84 to Mosier, right at gas station, left on 3rd, cross bridge, right on Carroll, left on Dry Creek, go about 1.8 miles beyond end of pavement, take driveway on right about 1/3 mile, cross creek (dry) and park.



Broken Top from Green Lake, Three Sisters Wilderness

August 2, Wednesday

Meeting: Alpine Flowers - Comparing Alpines in Several Areas. A program by Loren Russell, who has studied alpines in many regions. This meeting will be at the beautiful home of Stuart and Mildred Chapin on the bluff overlooking the Columbia in White Salmon, at 464 SW Eyrie Rd. Call Stuart Chapin, 509-493-2823, or Barbara Robinson, 541-296-5334, for directions.

North Coast

Field Trip General Information: Unless otherwise stated, meet for carpooling or caravaning at the parking lot at the Tillamook PUD on 11th and Pacific at the south end of Tillamook. Bring lunch and beverage and no pets. For further information call or e-mail John Gerke at 503-842-5366 or johnroyal@juno.com or Janet Stahl at 503-842-8708 or jjs@oregoncoast.com.

July 9, Sunday

Field Trip: Bay Ocean Sand Spit. We will hike to the wooded area and then hike a mile or two on the beach. Meet John Gerke at the Tillamook PUD parking lot at 10:00 am or at the parking lot at the north end of the dike road at 10:15 am. Wear long pants and long sleeved shirt in case mosquitos are active.

July 23, Sunday

Field Trip: Jones Creek. Meet at 10:00 am at Tillamook PUD parking lot or at 10:45 am at the Jones Creek Day Use Area Parking lot. Chris Friend of Oregon State Forestry will tell and show us about the pre-burn history of the area including the homestead and the Native American usage. We can contribute to his knowledge of the local plants. Jones Creek Campground is on the NW side of Hwy 6 at about milepost 20 to 22. If you're driving from the west and you pass Lees Camp, you've gone too far. Once off Hwy 6, go about 200 yards to a bridge and the parking lot is on the left side of the road shortly after crossing the bridge. If it is a hot day and you like cold water, bring swim suit for a dip after the activity.

August 20, Sunday

Field Trip: Cascade Head, Nature Conservancy Trail. Meet at 10:00 am at the Tillamook PUD parking or meet at 10:45 am at the parking lot off Hwy 101 near the crest of Cascade Head.

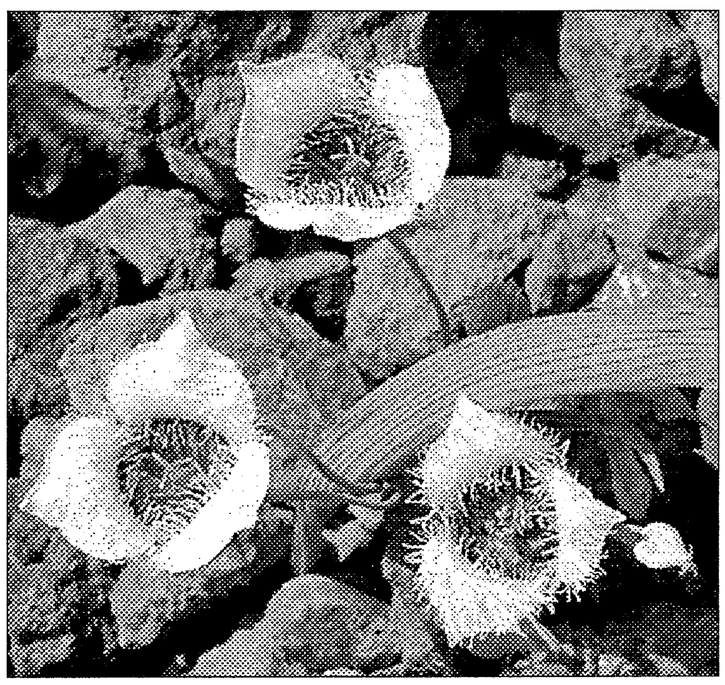
Portland

July 11, Tuesday

Meeting: "The Wildflowers of West Texas" a program by Linda Hardie of The Nature Conservancy. The meeting will be held in the Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St., in Portland. The room is open at 6:30 pm for socializing and the meeting will begin at 7:00 pm.

July 15, Saturday

Field Trip: Burnt Lake and East Zig Zag Mt. Trip leader Beth Magnus will lead us through old growth forest, marsh lands, lakeside and alpine habitats as we journey to the top of East Zig Zag Mountain. Along the way a wide variety of color; *Pedicularis bracteosa*, *Parnassia fimbriata*, *Viola palustris*, paintbrush, penstemon, *Habenaria*, and a mystery plant at the top. The hike is rather steep, 10 miles R/T long, with an option to hang out at Burnt Lake and swim if you don't feel like making the entire climb. Leave 8:00 am from Gateway/ NE 99th Ave. Park and Ride, southeast corner of parking lot. For more info. call Greg Stone 503-233-4761 or Beth 503-226-7919.



Calochortus elegans *on Pilot Rock, Ashland*

August 5, Saturday

Field Trip: Elk Cove. This hike starts at Cloud Cap and goes along the Timberline trail to Elk Cove. It is 8-miles round-trip long with a 2000 ft. elevation gain. We'll pass through a wide variety of habitats while we look at *Anemone occidentalis*, *Mimulus lewisii*, pink mountain heather, Jacob's Ladder, a great paintbrush show and many more. Leave 8:00 am from Gateway/ NE 99th Ave. Park and Ride, southeast corner of parking lot. For more info. call Greg Stone 503-233-4761 or trip leader Beth Magnus 503-226-7919.

Siskiyou

Warnings: Be prepared for hiking. Sturdy boots are advisable for moderate hikes, but canvas shoes may suffice on others. Spring weather may be wet, cold, and stormy; summer weather can be hot with intense sunshine. Bring a lunch and water. The trip sponsors and land owners hold no liability; all trip participants will be required to sign a disclaimer. None of the trips are all-access (on trails suitable for wheelchairs). For more information, call the trip leader or Don Heinze at 541-955-7247.

July 1, Saturday

Field Trip: King Mountain summit (East of Wolf Creek, Josephine County). 10:00 am. Leaders: Eleanor Pugh 541-866-2665 and Don Heinze. We may see the rare Siskiyou fritillary and Umpqua phacelia in bloom. There is also a natural rock garden with plants like rock beardtongue and several species each of stonecrop and phlox in this remote, unique BLM botanical area. Meet in front of the Wolf Creek Store in Wolf Creek (20 miles north of Grants Pass just off I-5). Easy one-mile off-trail hike.

July 4, Tuesday

Event: Wildflower Show. 10:00 am to 4:00 pm at Lithia Water Pavilion near the bandstand in Lithia Park, Ashland. The Irene Hollenbeck Memorial Wildflower Show will have a special display of flowers from the just-created Cascade Siskiyou National Monument near Ashland.

July 8, Saturday

Field Trip: Summer on Serpentine. Rough and Ready Creek, Mud Springs Trail. 9:00 am. Leader: Mike Anderson. See the serpentine wildflowers that the spring hikes miss: Howell's mariposa lily, California cone flower, Siskiyou monardella, leopard and Vollmer's lilies, Waldo Buckwheat, rigid willow herb, tofieldia lily (recently changed to triantha lily), and others. Meet at the IVVC, Cave Junction. Easy two-mile hike.

July 15, Saturday

Field Trip: Dutchman's Peak (west of Mt. Ashland). 9:00 am. Leader: Don Heinze. See a natural garden of alpine wildflowers in the cool high Siskiyou Mtns when lower elevations are hot, dry, and bloomless. Meet at the BLM parking lot at 3040 Biddle Road in Medford at 10:00 am. Alternate meeting place: Mt. Ashland Ski Area parking lot at 10:45 am. Easy one-mile hike.

July 22, Saturday

Field Trip: Condrey Mt. Roadless Area. 9:00 am. Leader: Shannon Clery, 541-488-4711. Though actually just over the California border, this roadless area is part of the Siskiyou Crest connectivity corridor and is some of the most pristine habitat in the Elliot Creek portion of the Applegate River watershed. We'll visit diverse true fir forests, high elevation meadows, and one or more designated botanical areas. We'll also discuss the importance of roadless areas, the significance of Condrey, an ongoing botanical study of the area, and threats to the unique plants and forests that occur here. Expect an easy-going pace, but with rugged off trail explorations. Meet at Evo's Java House in downtown Ashland.

July 23, Sunday

Field Trip: Sharon Fen (east of Ashland). 9:00 am. Leader: Molly Sullivan. Molly will take us to see the sedges and other wetland plants that are to be found in this unique quaking fen which is situated at about 5000' in the Cascades. This will be a good escape from the summer heat. The Nature Conservancy has acquired this area and is making certain that it remains undisturbed and remote. Meet at the BLM parking lot, 3040 Biddle Road in Medford. Alternatively, meet in Ashland at 9:30 am at the USFS Ashland Ranger District Office, 645 Washington St, located just off Exit 14. Easy two-mile hike, but 4x4 vehicles with high clearance are necessary.

Umpqua Valley

July, August

No monthly meetings.

July 8, Saturday

Field Trip: Donegan Prairie to see wildflowers and plant communities. Meet in the BLM parking lot, 777 NW Garden Valley Blvd at 8:00 am. Call Jack Hausotter at 541-863-5347 for more information.

July 15, Saturday

Field Trip: Diamond Lake to see *Shistostega*, mountain wildflowers, and plant communities. Meet in the BLM parking lot, 777 NW Garden Valley Blvd at 8:00 am. Call Jack Hausotter at 541-863-5347 for more information.

Caltha leptosepalum, *Mt. Ashland Meadows*

August 12, Saturday

Field Trip: Crater Lake to see subalpine wildflowers and plant communities. Meet in the BLM parking lot, 777 NW Garden Valley Blvd at 8:00 am. Call Jack Hausotter at 541-863-5347 for more information.

August 19, Saturday

Field Trip: Upper Cow Creek to see oak fern and other native plant species. Meet in the BLM parking lot, 777 NW Garden Valley Blvd at 8:00 am. Call Jack Hausotter at 541-863-5347 for more information.

Willamette Valley

July 15,16, Saturday, Sunday

Field Trip: A tour of Oregon's "Island in the Sky," 9700-ft Steens Mt. The road should be open to the summit and early reports say it is a very good wildflower year on the mountain. This will be basically car-touring with frequent stops and short walks. First day: 9:00 am to 4:00 pm, second day, probably 9:00 am to noon. Contact Judy Oliver at 503-371-8709, or bob@navicom.com to register and for information on camping/lodging in the area.

July 29, Saturday

Field Trip: Canyon Creek Meadows. Leader: Walt Yungen. Meet at 7:00 am in the parking lot of the K-Mart on Mission St. in Salem. We will carpool from there. The drive to the trailhead on the East side of the Cascades takes several hours, and the hike is 5 or 6 miles round-trip so be prepared for a day-long trip with varying temperatures. Food and water are essential, cameras are probably a good idea (both for flowers and for scenery). For questions, call Walt at 503-581-9511.

William Cusick

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

Botanical Society of America (BSA) Meets in Portland August 5-11.

The Botanical Society of America and related organizations will be having their national meeting, dubbed "Botany 2000," at the Oregon Convention Center, Doubletree Lloyd Center, Portland, August 5th to 11th this summer.

This is a marvelous opportunity for NPSOers to hear papers, attend poster sessions, luncheons and dinners, listen to speakers and take part in field trips.

For more information check out www.botany.org/bsa/portland. Registration materials, including descriptions of many enticing field trips, are also available online at: www.signupcenter.com/botany2000/online.html.

Here is a sampling of the field trips offered: "Ferns of the Columbia Gorge," Bryophytes of the Columbia Gorge," "Saddle Mountain," "Lichens and Bryophytes from Steppe to the Coast," "Fossil Forests of Central Oregon."

The conference is not cheap, but this is a chance for us to meet the country's top botanists and visit Oregon plant communities with the experts.

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 503-636-4112 or check out their website at http://www.berrybot.org.

Plant Photography

Would you like to move your 35mm camera out of "auto" mode and into "artistic" mode? Jessica Sall, of Leach Botanic Garden, is going to share her slides, knowledge, and photographic eye and skill. We'll have fun shooting up a roll of Berry Garden plants, and will even get them developed for constructive feedback, praise, and laughs. A truly unique opportunity! Class fee includes one roll of film and development costs. Jessica Sall Saturday, 7/8/00 9:00am - noon $25/($22 members) Limit: 15

Partners for Plants

Play an important role in the conservation of Pacific Northwest endangered plants by joining this cooperative effort between the staffs of The Berry Botanic Garden and Gifford Pinchot National Forest (now in its 9th year!). In the day, collect data on rare plants. In the evening, retire to the picturesque Flying L Ranch Bed and Breakfast, in the Washington countryside near Trout Lake. Although we'll still share KP and evening cooking duties, the inn will prepare our breakfasts. Accommodations, meals (except Monday's lunch), and training are provided. Participants will also receive an informational packet, including packing list and driving directions to the ranch. Enjoy the companionship of others interested in plant study while re-living summer camp as an adult. 7/10/00 - 7/14/00 $75 Limit: 12.

Events at Mount Pisgah Arboretum

Saturday, July 8, 9 am - noon
Build a Birdbox Workshop

Led by Don Lown, retired science teacher. Fee: $7 per birdbox ($5 Arboretum members)—except boxes donated to Arboretum (free)—limit 2 per participant. Bring your own hammer; all other materials plus instruction supplied. Pre-registration required; call (541) 747-1504 to register or for details.

Saturday, July 23, 10 am - 3 pm
Pine Needle Basketry Workshop

Led by Pam Roberts, U. of O. Craft Center Instructor. Take home a basket you've created! This is a popular favorite; sign up early. Materials provided. Fee: $30 ($25 Arboretum members). Call the Arboretum to preregister: (541) 747-1504.

Saturday, July 30, 2 - 4 pm
Art from Recyclables Workshop

Led by Sarah Grimm of BRING Recycling, this family-oriented workshop at the Arboretum combines fun, creativity, and environmental awareness. Tools and materials provided. Fee: $3 per person or $10 per family of 3 or more. Pre-registration required. For more info or to register call the Arboretum: (541) 747-1504.

Are You Interested in Naturescaping?

Nearby Nature of Eugene has started a website to answer questions and disseminate information about landscaping and gardening with natives. While it is still under construction there is information on many aspects of naturescaping as well as a list of nurseries who sell natives. Check it out at www.plantnative.org.

Two Rainyside Gardeners have a wealth of information on all types of gardening in the Pacific Northwest on their website. Along with general gardening information they have sections on gardening for butterflies, birds and other wildlife. For their information on gardening with natives go to www.rainyside.com/natives/.

Welcome New Members

1/1/2000 to 6/11/2000

Blue Mountain

Terry Dallas
Doug DeBok
Shelley Dunlap
Jeanne Jensen
Gordon & Laura Richardson
Cheryl Shippentower

Cheamill

Donna Anessi
Ann Beier
Penny & Ken Durant
Shirley Kimball
Kathy Kollasch
Barbara Rupers
Tim Stieber
Jerome W Verduyn

Corvallis

Norma & Henry Booke
Pam & Randy Comeleo
Sue Dornfeld
Everett & Linda Hansen
Linda Hardison
Frances P Stilwell

Emerald

David Atkin
Denis Biesecker
Jules Bubacz-Filipski
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New Flora of Rainier

Book Review by Rhoda Love, Emerald Chapter

Flora of Mount Rainier National Park
by David Biek
Oregon State University Press, Corvallis
520 pages, ISBN 0-87071-470-8
Publication date: April 2000
Paper, $29.95 Orders: 1-800-426-3797

To celebrate the 100th birthday of Mt. Rainier National Park, give yourself this outstanding new flora of the park. Author David Biek joins an illustrious line-up of plant hunters who have botanized "The Mountain." The list reads like a who's who of botanical greats including William F. Tolmie, W. D. Brackenridge, L. F. Henderson, Charles Vancouver Piper, E. C. Smith, E. L. Greene, M. W. Gorman, J. B. Flett, Harold St. John, George Neville Jones, J. W. Thompson, T. C. Frye, C. Frank Brockman, Jerry Franklin and others.

This is the most complete coverage of the Park's vascular plants to date, cataloguing 872 taxa, of which 723 are natives. The book is extremely well-researched, the author having reviewed a large past and present literature, searched various herbaria, and done extensive field checking. Included in the front matter is information about the park, community descriptions, plant distribution data, a section on weeds, a discussion of rare species, and reviews of early work and recent studies. In the back matter, Biek lists names of plants not included in earlier Park lists, as well as a discussion of doubtful and excluded species. He provides a full glossary and index and an impressively comprehensive bibliography.

The heart of the book is made up of the keys, descriptions, and illustrations of all vascular plant taxa known to occur in the Park. In all cases, illustrations are from *Vascular Plants of the Pacific Northwest* by C. L. Hitchcock *et al.* Where a taxon is not illustrated in Hitchcock, no drawing is included here, but that is true of a very small percentage of the species covered. Regrettably no scale is included with the drawings. Some species are shown in colored photos in the center of the book. Cryptogams are treated in the same order as they appear in Volume 2 of *Flora of North America*. Gymnosperms and dicot and monocot families, genera, and species are covered in alphabetical order. This is a book I am very glad to add to my library of useful local floras. It is extremely well-edited and I noted only a small problem or two. Curiously, I was not able to key to the genus *Berberis* using the dicot family key! In the Family Liliaceae, I believe the fairy bells have been placed in the genus *Prosartes*.

It has been noted that a good deal of high quality botanical work is being performed these days by talented and dedicated amateurs such as students, retirees, and volunteer plant enthusiasts. *Flora of Mount Rainier National Park* is a superb example of this trend. The author, David Biek, is a Tacoma librarian and a member of the Washington Native Plant Society. Bravo, David, you have earned the right to join the cadre of illustrious botanists who have tabulated the flora of Rainier!

NPSO Items for Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. Individuals may order posters at $12 each, plus $3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu for wholesale prices to chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item. Available from Stephanie Schulz, 84603 Bristow Rd., Pleasant Hill, OR 97455, $5 each, plus $3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses, phone numbers and e-mail addresses of NPSO members (April 1999). Available from Jan Dobak, 2584 Savier St., Portland, OR 97210.

Flora of North America Publishing Schedule

Flora of North America has received a promise of a grant of approximately $3 million if they bring out 2 volumes per year for the next six years. They are determined to meet this schedule. Volume 22 appeared this March. It contains the Juncaceae and other monocot families. Later this year we can expect Volume 26: more of the Monocots: Liliaceae, Orchidaceae, Iridaceae etc.

The rest of the schedule is:

2001: Volume 23: Cyperaceae
2001: Volume 4: Aizoaceae, Cactaceae, Chenopodiaceae, Portulacaceae, etc.
2001: Volume 24: Poaceae, Part 1
2002: Volume 5: Caryophyllaceae, Plumbaginaceae, Polygonaceae, etc.
2002: Volume 25: Poaceae, Part 2
2003: Volume 14: Apocynaceae, Asclepiadaceae, etc.
2003: Volume 6: Many families such as Droseraceae, Loasaceae, Malvaceae, etc.
2004: Volume 19: Asteraceae, Part 1
2004: Volume 20: Asteraceae, Part 2
2005: Volume 21: Asteraceae, Part 3
2005: Volume 7 (?): Brassicaceae, Capparaceae, Salicaceae, etc.

Dune Vegetation in Oregon

Book Review by Bruce McCune

Christy, J. A., J. S. Kagan, and A. M. Wiedemann. 1998. *Plant Associations of the Oregon Dunes National Recreation Area.* USDA Forest Service, Pacific Northwest Region Technical Paper R6-NR-ECOL-TP-09-98. 183 pages, spiral bound, soft cover.

Dune lovers know that the Oregon dunes are wet and wild. The botanical treasures live in a sensuous place: wind and rain in your face, sand in your sandwich, or toasting yourself in a sunny, wind-sheltered hollow. For identifying plants of the dunes and a summary of dune vegetation, many readers will enjoy the recent revision of *Plants of the Oregon Coastal Dunes* by Wiedemann, Dennis, and Smith (1999, OSU Press, Corvallis, ISBN 0-87071-457-0. Paperback, $12.95; http://osu.orst.edu/dept/press/).

The coastal dunes of Oregon have attracted plant ecologists for a century, including a monograph by the famous W. S. Cooper (1936, 1958), Frank Egler's masters thesis (1934) long before he became famous for his concept of "initial floristics," and a series of early papers by H. D. House (1914-1918).

This new book on the plant associations of the dunes describes in detail the vegetation of the dunes and associated wetlands and forests. What a challenge! It is difficult to think of an area with steeper environmental gradients and patchier disturbance histories. The result is an exceedingly complex vegetation that can change completely numerous times on a short hike from a forested parking lot to the beach.

The book is based on lots of original data. I've often wondered what it would be like to sample vegetation in this area. Casual visitors can avoid the places so thick that walking and even crawling are impossible, but transects and plots force you into some tough spots. I'm sure the authors put in their time swimming through shrubs with the flop-grapple-flop method.

The book starts with 26 pages of text describing the climate, geology, soils, hydrology, invasions by exotics, and plant succession of the area. A summary of the flora includes references to fungi, lichens, bryophytes, and fauna of the area. But the bulk of the book is devoted to descriptions of the community types. Each community type is illustrated with a color photograph showing the general appearance of the vegetation. The description of the types include environment, vegetation, succession, disturbance history, management, references to other studies, and a summary table of the common plants.

The vegetation types are based on existing vegetation rather than Daubenmire-style habitat types based on potential climax vegetation. The authors adopted the tenets of the National Vegetation Classification System. The "plant association" is the basic unit of the classification. These are named by one or more diagnostic species in the upper layers of vegetation. For example, one of the woodland types is the "shore pine/hairy manzanita association," one of my favorites—note the reindeer lichens in the photo.

Scholars will like the comprehensive bibliography and data tables in the appendices. A six-page appendix lists the vascular plants of the Oregon Dunes National Recreation Area.

My only criticism is that the plant names are difficult to use. Most of the text uses common names without reference to the scientific name. That works fine for names truly in common use, such as Sitka spruce. But if you don't know the common name listed, then to figure out what is meant you must flip through Appendix 3 to find the Latin. For example, what is "false dandelion"? Names in the appendix are alphabetized by the Latin, so I scanned three pages of herb names to find that false dandelion is *Hypochaeris radicata.* However, the Wiedemann's ID book mentioned above gives "Gosmore" as the first common name for this species. Hitchcock and Cronquist give "spotted cats-ear" as the first common name for *Hypochaeris radicata* and call *Agoseris* "false dandelion." I'm not trying to dissuade you from using this book—rather I'd like to encourage future authors to make easy-to-use connections between common and scientific names.

Congratulations to the authors on a job well done. This will be a useful reference for aficionados of the dunes for a long time to come.

Plant Associations of the Oregon Dunes National Recreation Area is available free of charge from:

Jane Kertis, Area Ecologist
Siuslaw National Forest
P.O. Box 1148
Corvallis, OR 97339
541-750-7192

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Plant Profile: *Dicentra formosa*
continued from page 73

dicentrine, and other isoquinoline alkaloids (Moore, 1993). The Northwest's indigenous people found several ethnobotanical uses for this plant. Citations include preparing the root in such a way that it can calm nerves; relieve toothaches, chronic skin problems, syphilis, and menstrual discomfort. The Skagit people of Washington crushed the plant and applied it to the hair to make it grow. It was thought to work best on young children (Gunther, 1973). Even with its past medicinal uses, *Dicentra formosa* is considered to be a poisonous plant. All parts of the plant can cause a skin rash in humans, and animals are adversely affected if they ingest the plant, with large quantities being fatal. This proves to be a problem for livestock who graze in woodlands in the spring. Symptoms will include trouble walking, respiratory problems, seizures, salivation, vomiting and agitation (Eugene Poison Control).

Perhaps the best quality of *Dicentra formosa* is the visual beauty it offers, especially after a gentle rain when the sun is sending down sparkling rays, brilliantly lighting up each graceful cluster—reminding us that each of our native wildflowers is truly unique.

Botany student contributors: Mona Jones, Tanya Stiller, Laura Osinga, Cyrus Curry

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Note: This article was written as part of the information packet for the Mount Pisgah Arboretum Wildflower Festival on May 21, 2000. A painting of *Dicentra formosa*, by Tanya Harvey, graced the poster advertising the festival.