



# Bulletin

of the

# Native Plant Society of Oregon

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

VOLUME 41, No. 7

JULY 2008

## Population Monitoring of Gentner's Fritillary at Pickett Creek

by Jim Steitz

*The following article on the Gentner's fritillary is the third and last in a series where NPSO/Institute for Applied Ecology (IAE) interns discuss their activities during the 2007 field season. Interns participated in rare plant monitoring, restoration, floristic surveys, and other research projects conducted by IAE staff throughout Oregon during the past summer. In this article, Jim Steitz describes our efforts in collaboration with the Medford District of the Bureau of Land Management to study population growth and trends in Gentner's fritillary. For more information on internship opportunities, please contact IAE at [andrea@appliedeco.org](mailto:andrea@appliedeco.org), 541-753-3099 or visit [www.appliedeco.org](http://www.appliedeco.org). Thanks again to NPSO for contributing to botanical education and work experience.*

*-Andrea S. Thorpe Ph.D., Institute for Applied Ecology, Corvallis, Oregon*

The Institute for Applied Ecology conducts annual monitoring of Gentner's fritillary (*Fritillaria gentneri*), a gorgeous, tall species of lily with blood-red flowers, along Pickett Creek, in the BLM's Grants Pass Resource Area. This population is composed of several patches scattered on a slope of serpentine soil covered by a mixed meadow/forest habitat of Douglas-fir, Oregon white oak, and whiteleaf manzanita, interwoven with lakes of plectritis, larkspur, and buttercup.

The prevailing hypothesis about the origins of Gentner's fritillary suggests that it is a stabilized hybrid between checker lily (*F. affinis*) and scarlet lily (*F. recurva*). Rapid speciation through polyploidy (the state of having more than two full sets of chromosomes per nucleus) is relatively common, and Gentner's fritillary shares several morphological and genetic traits with both species. The ranges of all three species also overlap. In fact, scarlet lily is found in one of the Gentner's fritillary patches we monitored, requir-

ing a close eye to distinguish Gentner's fritillary by virtue of its slightly less recurved and deeper blood-red petals. However, there are many sites where Gentner's fritillary occurs with neither of the parental species, providing a clue to the sites where the parental species used to occur.

IAE conducts two types of monitoring at Pickett Creek, counting all flowering individuals in the population, and counting and measuring both vegetative and reproductive individuals in randomly selected plots within the population. Although Gentner's fritillary produces large, showy flowers, it does not produce viable seeds. Instead, it reproduces only through the splitting of portions of mature plant bulbs into large numbers of rice grain-sized bulblets, which appear aboveground as single leaves for at least their first year of growth, often in large swarms. Thus, while counting flowering individuals is easier and more repeatable than counting all individuals, it omits information

*continued on page 76*

**Don't Miss the  
2008 NPSO  
Annual Meeting**

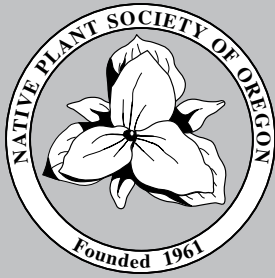
**July 11-13**

**in Eugene**

Registration and  
Information in April *Bulletin*  
and at [www.NPSOregon.org](http://www.NPSOregon.org)

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## Native Plant Society of Oregon

### World Wide Web

<http://www.NPSOregon.org>

### E-mail Discussion List

To join, send a message to [majordomo@tardigrade.net](mailto:majordomo@tardigrade.net), with the following in the body of the message: `subscribe npsoc`

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or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

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The submission date is the 10th of each month for the following month's issue except for the Aug./Sept. issue which is July 24. Send submissions by e-mail to [bulletin@NPSOregon.org](mailto:bulletin@NPSOregon.org).

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

### Editor's Note

## Submission Information for Next Issue

A reminder that, as usual, next month's *Bulletin* will cover the last half of August and September to give me a chance to get out and botanize! The submission date will be pushed back two weeks to **July 24**. You should receive this issue the second week of August. The following issue will return to the usual schedule with a submission date of September 10th and should arrive by October 1st.

Please send all submissions electronically and put in the same order as they are in the *Bulletin*. **Put NPSO and the Chapter or organization name in the subject.** This helps keep them from getting lost with the spam. Thanks! I hope you too will have a chance to get out and enjoy the wonderful summer wildflowers!

## NPSO Needs You!

The Native Plant Society of Oregon is the only organization in the state entirely devoted to native plants. For over 40 years, members of NPSO have worked to conserve our native plants and their habitats; led field trips and work parties; hosted meetings, wildflower shows and plant sales; given lectures and much more. They have also performed the many mundane tasks required to keep the organization working, both on the state and chapter level. None of this could be done without volunteers. If you are not already a volunteer, please consider contributing some of your time, energy, and talents to help NPSO pursue our important mission.

**Bulletin Editor.** This job consists of gathering the submissions, editing copy and laying out the file for the monthly newsletter. This is then sent to the printer and must be proofed before printing. It would be possible to split this job between two people.

**Secretary.** Responsibilities include attending and participating in State Board meetings as a voting member, organizing and distributing Board meeting reports and minutes, and assisting the NPSO President in developing Board meeting agendas. A large time commitment is usually not required.

**Education Chair and Committee Members.** This committee focuses on creating outreach opportunities to engage and educate the public about native plants—their conservation, diversity, ecology, and importance to our natural heritage.

If you are interested in any of these positions or would like more information, please contact NPSO state president, David Lebo, at [president@NPSOregon.org](mailto:president@NPSOregon.org).



TANYA HARVEY

*Extra moisture helps annuals, such as this threadleaf phacelia (*Phacelia linearis*) at Fort Rock, become much larger and more floriferous than in drier years.*

## State

### July 11–13, Friday–Sunday

**Annual Meeting:** Information and registration materials were included in the April *Bulletin*. Additional information can be found on p. 75 of this issue as well as through the NPSO web site.

## Blue Mountain

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

## Cheahmill

For more information visit the chapter website: [www.oregon-nativeplants.com](http://www.oregon-nativeplants.com)

### July 6, Sunday, 8 am

**Field Trip: Kings Mountain.** NPSO member, long-time Oregon Mycological Society member, and former science teacher Jake Hurlbert has been studying ecological and mycorrhizal relationships between plants, fungi, and insects on Kings Mountain for one year. His interest was sparked by a large fruiting of phantom orchids at the top of the 3,200' mountain, which receives 100–200" of rainfall a year. The results of this study were shared at the April 24 chapter meeting in McMinnville. Hikers will help create plant lists on one of two trail options: a difficult 2.5-mile climb to the top or a shorter, more level loop trail ending at Elk Creek Campground. Participants can camp overnight and meet at the campground at 9 am or carpool from McMinnville. For carpool, meet at 7:45 am for an 8 am departure from the Blaine and Linfield street parking lot beside Linfield College. For more information and to RSVP, call 503-474-0775.

### July 10, Thursday, 5–7 pm

### August 7, Thursday, 5–7 pm

### September 4, Thursday, 5–7 pm

**Work Parties: McMinnville Library Native Plant Garden.** Please join us!

Volunteers will be maintaining the library garden on the first Thursday of each month, except in July when we will gather on the 2nd Thursday.

### July 19, Saturday, 8 am

**Field Trip and Work Party: Kingston Prairie.** We will join a Nature Conservancy work party to collect seed on this all-day trip with a carpool from McMinnville. Some restrictions apply, so RSVP as early as possible to Marna at 503-835-1042 if you are interested.

### IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. 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. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

### NOTICE TO FIELD TRIP CHAIRS AND LEADERS

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

## Corvallis

To join the Corvallis e-mail list to receive notification of upcoming events, please e-mail [mattbs@peak.org](mailto:mattbs@peak.org)

### July 10, Thursday, 8 am

**Field Trip: Iron Mountain.** Spectacular wildflowers with well over 200 species of vascular plants recorded along this botanically rich trail west of Santiam Pass. 5 miles, moderately difficult all-day hike. Meet at 8 am at the free OSU parking lot east of the Forage Seed Research Center (3450 Campus Way). Call Dan Luoma, 541-752-8860, for more information.

## Emerald

### July 15, Tuesday, 9 am–12 pm

**Field Trip: Native Plant Seed Harvest at Mt. Pisgah Nursery.** The flowers have bloomed and seeds are ready for harvesting. Wear work clothes. Tools provided. Meet at 9 am at the nursery. Take Seavey Loop Rd. to entrance of Buford Park. After crossing bridge, turn left and follow the signs to the nursery. Call Dave 541-345-5531.

## High Desert

To be added to the e-mail list for upcoming events, please contact Maria Britton at [mebritton@bendbroadband.com](mailto:mebritton@bendbroadband.com).

For questions or additional information, please contact Eileen Obermiller at [hd\\_president@NPSOOregon.org](mailto:hd_president@NPSOOregon.org)

### July, TBA

### Field Trip: Wildflowers of Glaze Meadow.

We will look at more wildflowers as the season really begins to pop. Details of date and time and meeting place will be e-mailed to members as we get closer to the date. Meet at the Sisters Ranger District. Contact: [mpajutee@fs.fed.us](mailto:mpajutee@fs.fed.us).

**August 16, Saturday, 8:15 am**

**Field Trip: Broken Top Wildflowers.**

Stu Garrett will lead a hike through spectacular glaciated scenery and alpine wildflowers in the Cascades, west of Bend. Meet at the north end of the Pilot Butte State Park parking lot at 8:15 am to arrange carpools and get directions. Return around 5 pm. This 6-mile loop hike is one of our more strenuous and our field trip size is limited to 12. A NW forest pass will be required for parking. Pre-registration is required, please contact Stu Garrett at 541-389-6981 (evenings) to secure your spot.

## Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, [smalaby@cs.com](mailto:smalaby@cs.com).

## Mid-Columbia

**No regular meetings in July or August.**

**July 12, Saturday, 5 pm**

**Event: Annual Potluck Supper.** The potluck will be held at the home of Will Bloch and Dell Rhodes, preceded by a walkabout of the wildflower propagation and habitat restoration projects on the property. The tour/discussion will start around 5 pm, and the meal, around 6:30 pm. Please call Will at 509-493-3572 for directions and meal coordination.

## North Coast

For information on the North Coast Chapter call Vivian Starbuck at 503-377-4141.

## Portland

*If you would like to receive the semi-official, Chapter e-mail newsletter, The Calochortus, e-mail Don Jacobson at [donjphoto@gmail.com](mailto:donjphoto@gmail.com)*

**No regular meetings in July or August.**

**July 19, Saturday, 8 am**

**Field Trip: Silver Star Mountain.**

At an elevation of 4390', Silver Star Mountain offers a wonderful mix of subalpine meadows full of paintbrush, gentians, cat's ear lilies, and beargrass, dark coniferous forests with several species of anemones along with buckbean, and rock garden species such as Columbia lewisia. On clear days, the views of the Western Cascades are stunning. The hike will range from 3–5 miles with an elevation gain from 500–1000' (depending on road conditions). Contact Paul Slichter for more information at 503-661-3292, [pslichte@teleport.com](mailto:pslichte@teleport.com).

**August 2, Saturday**

**Field Trip: Lookout Mountain.** To the east of Hood River valley, we'll hike the loop from High Prairie up to the top of Lookout Mountain, then down to Gumjuwac Saddle and back up to High Prairie. A variety of forest, meadow, and rocky outcrops, with lots of good plants. Driving, round trip: 150 miles paved, 10 miles gravel. Hiking: 7 miles, 2000' elevation gain. Contact: Jan & Dave Dobak, 503-248-9242.

## Siskiyou

For information on the Siskiyou Chapter, contact Armand Rebeschke, 541-482-2141, [si\\_president@NPSOregon.org](mailto:si_president@NPSOregon.org).

## Umpqua Valley

**July 5, Saturday, 7:30 am**

**Field Trip: Shore Acres State Park.**

We will be spending the day on the Oregon Coast at or near Shore Acres Park. We should see crowberry (*Empetrum nigrum*), sea thrift (*Armeria maritima*) and western lily (*Lilium occidentale*). Be sure to bring your camera as well as lunch. Meet at the BLM parking lot at 7:30 am. Leave by 8 am. Plan to carpool and save on gasoline. Contact Sam Friedman at 541-673-0589.

**July 6, Sunday, 7:30 am**

**Workday: VA Native Plant Garden.**

Bring your love for native plants and gardening. Join us at the VA Native Plant Garden. Spend a little time in the morning hours and help us get the garden ready for summer. Bring gardening tools, gloves and a sack lunch if you wish. Parking is allowed in the employee parking area on weekends near the Transitional Care Unit (TCU) complex. You can see the garden from there. For more information call Donna Rawson at 541-459-2821.

**July 10, Thursday, 7 pm**

**August 14, Thursday, 7 pm**

**Meetings: Programs TBA,** followed by our monthly business meeting. If you want to learn more about our chapter or NPSO please join us. Meetings are held upstairs in room one at the Mercy Education Bldg., 2459 Stewart Parkway, Roseburg. For more information call Sam Friedman at 541-673-0589.

## Willamette Valley

**July 12, Saturday, 7:30 am–4 pm**

**Field Trip: Triangulation Peak.** Triangulation Peak in the Mt. Jefferson Wilderness Area features a wide variety of flowers that flourish in forest, marsh, and rocky habitats. The walk will be about 4 miles round trip with a 700' elevation gain. Bring food and water. To register, call John Savage after 7 pm at 503-399-8615.

**August 3, Sunday, 7 am–6 pm**

**Field Trip: McNeil Point.** John Savage, chapter president, will lead a hike to McNeil Point near Rhododendron in the Mt. Hood area. This all-day, 7-mile hike will take you through lush forest areas to meadows filled with a variety of mountain wildflowers. This is a slow-paced hike with some elevation gain. To register, call John at 503-399-8615 after 7 pm.

## William Cusick

All announcements about chapter meetings and field trips are also posted at [www.williamcusick.npsoregon.org](http://www.williamcusick.npsoregon.org).

### July, TBA

**Field Trip: *Cypripedium fasciculatum* in the Wallows** led by Gene Yates. This trip will also look at *Botrychium* and *Ophioglossum*. Details to be determined.

### August 16, Saturday, TBA

**Field Trip: Cougar Meadows RNA.** Cougar Meadow is located near Anthony Lakes and was recently dedicated to the memory of Charlie Johnson. It has a large sedge and tufted hairgrass component, and contains one or more species of moonworts/grapeferns. There is a small aspen stand that is not regenerating, with young conifers establishing in the understory. The lack of aspen regeneration may be related to wild ungulate grazing, but the cause is unknown. Led by Jenifer Ferriel to look at the aspen regeneration issue and also try out the new sedge key.



RHODA LOVE

Chris Campbell collecting *Amelanchier* this May in west Eugene.

## Oregon *Amelanchier*, 19-25 May 2008

by Christopher Campbell, Professor of Plant Systematics, University of Maine

Chris is the world expert on the genus *Amelanchier*, co-author of the treatment of the genus for Flora of North America, and recipient of a National Science Foundation grant to carry out a molecular study of the genus.

This is a brief account of my just-completed first field work on *Amelanchier* in western North America. I chose to start working on the genus in Oregon because it appears to have as much or more taxonomic diversity as any other area in the west.

Not being as familiar with western North American serviceberries as I am with eastern North American taxa, I was concerned about being able to find good populations in flower and to sample the diversity adequately. In preparing for this trip, I hoped Rhoda Love would be able to put me in touch with people who would be able to help locate populations. She did me a great service in this regard with her call for support to the Native Plant Society of Oregon, and many NPSO members from many parts of the state contacted me and provided great support. I will mention some of these kind people below and here thank the many others who offered help too.

Rhoda and Wes Messinger collected samples of *Amelanchier alnifolia* var. *semiintegrifolia* in the Eugene area, which I saw when I visited them on 19 May. Jim Duncan was tremendous help in terms of suggesting the timing of the trip. As most of you know, *Amelanchier* is a degree-day plant, only flowering after there has been a certain minimum of warm weather. Jim Duncan and I e-mailed back and forth about the optimum time for my visit, and he suggested the time period that I followed. Jim's timing was just right, and I saw serviceberries in flower everywhere I went. After Eugene, I went to southwestern Oregon, where Jim had lined up numerous sites to visit, from the Siskiyou Crest to Modoc Point. I wanted to see *A. utahensis*, and we saw excellent material on the Siskiyou Crest. An earlier collection from this site was identified as *A. pallida*, which is most often considered a synonym of *A. utahensis* these days, but which I will be evaluating over the course of my study.

I next drove to Alturas, California, near which there are sites where *A. utahensis* and *Peraphyllum ramosissimum* (a close relative of *Amelanchier*) had previously been collected. I relocated both taxa and then headed for northeastern Oregon, passing briefly through western Idaho. Jim and Kay Young had collected *A. cusickii* from a plant that they had transplanted into their yard 15 years ago. We toured the slopes near their home in Halfway and found more *A. cusickii*, as well as *A. alnifolia* var. *semiintegrifolia*, and possibly *A. alnifolia* var. *pumila*. I was excited to see *A. cusickii* near the home of William Cusick, about whom I read in Rhoda's wonderful article in *Kalmiopsis*.

The final leg of my 2200-mile journey was into southern Washington to visit a site of *A. cusickii* that Paul Slichter e-mailed to me. His excellent directions led me to the plants, and I also collected *A. alnifolia* var. *semiintegrifolia*, and *A. alnifolia* var. *alnifolia*.

A tentative taxonomic tally for this trip is 17 collections of *A. alnifolia* var. *semiintegrifolia*, 16 *A. alnifolia* var. *alnifolia*, five *A. cusickii*, three to four *A. utahensis*, possibly two *A. pumila*, and some unknowns. In addition to voucher specimens, I collected leaf material for DNA extraction from 28 plants, Ken Chambers and Wes Messinger collected material for DNA, and Cliff Heselton collected herbarium material.

I also have lots of questions that I will be thinking about and using these (and other) collections to answer. All in all it was an excellent trip, in large part due to help from NPSO members.

## OTHER EVENTS

### Siskiyou Field Institute Classes

For more information or to register for courses call 541-597-8530 or visit [www.thesfi.org](http://www.thesfi.org)

**Mary Paetzel—Her Special Places:  
Bigelow Lakes & Mt. Elijah**  
July 19, Saturday

**Crater Lake: Sensitive Natural  
Wonders of the Cascades**  
July 19-20, Saturday & Sunday

Michael Murray, PhD and John Salinas, MS

**SFI Annual Dinner**  
July 25, Friday

Keynote speakers Darlene Southworth, Jonathan Frank, & Robert Coffan

**Conifers**  
July 26, Saturday

Frank Callahan

**Outdoor Explorer at Deer Creek  
Center**  
July 26, Saturday

CeCe Bowerman and Barbara Hilyer

**Following Whittaker: Monitoring  
Environmental Change**  
July 26, Saturday

Susan Harrison, PhD and Ellen Damschen, PhD

### Berry Botanic Garden

11505 SW Summerville Ave., Portland.  
To register or to get more information, visit [www.berrybot.org](http://www.berrybot.org) or call 503-636-4112x102.

**Silver Star Mountain Hike**  
June 12, Thursday, 9 am–4 pm

Re-vegetation of this peak in the Gifford-Pinchot Forest has been slow due to a history of fires. This means open meadows full of wildflowers in the spring. Moderate hike of 5 miles roundtrip with 1500' elevation gain. Kris Freitag, leader. Donations welcome. Limit 30.

**Forests: The Complexities  
and the Conflicts**  
July 27, Sunday

Tom Atzet and Sue Parrish

**Crash Course in Flowering Plant  
Families**

August 1–3, Friday–Sunday

Linda Ann Vorobik, PhD

**Composites and Graminoids:  
Advanced Plant ID**  
August 4–6, Monday–Wednesday

Linda Ann Vorobik, PhD

### NABA Fourth of July Butterfly Counts

For more info or to preregister, contact Ellie at 541-684-8973 or [woodnymph3000@gmail.com](mailto:woodnymph3000@gmail.com).

**Eugene-Springfield Butterfly Count**  
July 6, Sunday, 9 am

**Browder Ridge Butterfly Count**  
July 19, Saturday, 8 am

All are welcome. Butterfly experts will be available in each group. Beginners are encouraged. Meet at Campbell Senior Center parking lot (155 High Street, Eugene). \$3.

**Mary's Peak Field Trip**  
July 13, Sunday, 8 am

As the highest peak in the Coast Range, Mary's Peak allows stunning views of both the Cascades and the ocean. Its wildflower meadows and woodland edges abound with flowers and butterflies. We can expect to see about 20 species of butterflies and a gleaming swirl of blues. We'll meet at the Campbell Senior Center parking lot (155 High Street, Eugene) at 8 am. Trip is limited to 15.

### Oregon Wild Summer 2008

**Iron Mountain & Echo Basin  
Campout**  
July 18–20, Friday–Sunday

Join Oregon Wild and Wendell Wood on a wildflower identification campout this summer!

**Bald Mountain Hike**  
July 22, Tuesday

This will be a slow-going exploration of wildflower-covered meadows and rocky outcrops as you traverse the Pacific Crest Trail to a scenic overlook of Mount Hood. A complete plant list will be provided for each hike. For more information on these hikes or other Oregon Wild Summer outings, and to register, please visit [www.oregonwild.org](http://www.oregonwild.org), or call Margaret De Bona at 503-283-6343 ext. 210.

### North Mountain Park Nature Center

620 N. Mountain Ave, Ashland, [www.northmountainpark.org](http://www.northmountainpark.org). To register visit <http://ashlandparks.recware.com> or call the Nature Center at 541-488-6606.

**Edible and Medicinal Plant Walk**  
July 9, Wednesday, 7–9 pm  
August 30, Saturday, 9–11 am

Enjoy a fun and informative exploration of native and naturalized edible and medicinal plants at North Mountain Park. This is a unique opportunity to learn about the beneficial properties as well as to gain tips on gathering and preparing many common plants. Printed information will be provided. Instructor Jon Carlson is a teacher and practitioner of herbology. His experience spans 16 years and includes wildcrafting, medicine making, clinical herbology, herbal first aid and herb retail. Ages 12 & up. \$20 fee.

# Final Details for NPSO Annual Meeting, July 11–13, 2008

Welcome to the NPSO Annual Meeting hosted by Emerald Chapter!! It is not too late to register! For more information and a suggested list of items to bring for the field trips, please visit our chapter website: [www.emeraldnpso.org](http://www.emeraldnpso.org) or call Bruce Newhouse at 541-343-2364. Here are your 2008 Annual Meeting venue locations and schedule of events. (We suggest you bring this to the Meeting.)

## EVENT LOCATIONS

All 2008 Annual Meeting events take place either at the Mt. Pisgah Arboretum (MPA) located east of I-5 Freeway, or at Lane Community College (LCC) located west of freeway. For both, use freeway Exit 189, southeast of Eugene.

**To the MPA from the north:** Exit 189, follow frontage road south to light at 30th Avenue. Turn left over freeway, then left again at 4-way stop onto Franklin Blvd., then immediate right past gas station onto Franklin Blvd. E, then left on Seavey Loop Road. Proceed about a mile east (across Willamette Coast Fork), then right on Frank Parish Rd. for parking permit and Arboretum.

**MPA from the south:** Exit 189, straight past stop sign at 30th, turn right past gas station, then as above.

**Arboretum Parking Permits:** Parking permits are required at MPA. Please stop at the permit dispenser where an NPSO member will be available Friday from 2:30 to 6:00 pm to hand you a prepaid permit. (Latecomers can obtain a permit at the Registration table.) Display permit on your dash at all times.

**LCC from the north:** Southbound on I-5, take Exit 189, follow frontage road south to light at 30th Avenue, and go south to the light at 30th. Turn right on 30th, then immediately left onto Eldon Schafer Drive.

**LCC from south:** Northbound on I-5, exit 189 and proceed to stop sign. Turn left, go over freeway, straight through first light, then turn left at second light onto Eldon Schafer Drive.

## UPDATED SCHEDULE

### Friday Afternoon Events at MPA:

From 2:30 pm: Acquisition of parking permits. Registration at White Oak Pavilion. Guided walks by David Wagner (3:00 pm), and Dave Predeek (4:30 pm), meet at Pavilion.

**Friday Evening 6:00–8:30 pm:** Social and Slide Show (only for those who registered for it). Chamber music, no-host wine and beer bar, finger food snacks, art sales and displays. Field Trip and Wildflower Preview Slide show by photographer Tanya Harvey who is currently working on a book on Western Cascades plants and wildflower hikes.

**Saturday Field Trips:** Meet at 8:00 am SHARP at LCC northeast parking lot (first parking lot on the right). Sorry, no bathrooms; please take care of this before you arrive. **Arrive early to register if you did not do so on Friday.** Pick up lunch (if ordered). Find your trip leader, form carpools on your own (be sure to contribute gas money

to driver before returning). **8:15 am: Leave for field trips to Western Cascades.** Most groups can expect to be back in Eugene by 4:30 pm.

If heavy snow remains in the Cascades, some field trip destinations will be revised. You will be informed of your destination when you pick up your registration packet.

**Saturday Evening Banquet and Program 5:30–9:00 pm.** MPA White Oak Pavilion (for all who registered). No-host wine and beer bar followed by a buffet dinner. (Please serve yourself the entrée you requested as quantities are limited.)

After dinner events will include field trip summaries, announcements, thank yous, year's accomplishments, and swearing in of officers, followed by our feature presenter: Dr. Bitty Roy of the University of Oregon Department of Biology. Bitty, a plant population ecologist at the U. of Oregon, will give a presentation on false brome (*Brachypodium sylvaticum*) entitled "Outrunning the Enemies." She will discuss why one of the Northwest's nastiest recent plant invaders is so successful.

### Sunday Morning 9:00 am–Noon:

Board Meeting for NPSO officers and any interested members. Lane Community College, Room 115 in the Math/Science Building #16. Snacks will be provided. Parking for the Board Meeting is just south of the Math/Science building at the southeast edge of the LCC campus. (Parking Lot L.) A map of the LCC campus is available at: [www.lanec.edu/mpr/locations/mc.htm](http://www.lanec.edu/mpr/locations/mc.htm)

**Sunday Morning 8:30 am:** Optional hikes to Western Cascades for those interested will be announced Saturday night. Meet at LCC northeast parking lot. Return by 3 pm or 4 pm.

See you all in Eugene July 11-13!



TANYA HARVEY

*Mt. June is a terrific place to see stunning cliff penstemon, Penstemon rupicola. Hikes will be offered to see this beautiful site (and sight!) Saturday and Sunday of the Annual Meeting.*

## Gentner's Fritillary at Pickett Creek

*continued from page 69*

on non-flowering plants that comprise the majority of the population. However, censusing non-flowering individuals would be impractical because of their sheer abundance, the difficulty of locating them among grasses, and the fact that they cannot be distinguished from the vegetative leaves of scarlet lily.

In 2007, the total population (both vegetative and reproductive plants) of Gentner's fritillary at Pickett Creek was estimated to be about 13,000 individuals. Comparing the estimated total population size between years, this population appears to be relatively stable, except for a temporary increase in 2003 to about 17,000 individuals. In contrast, the census of the flowering plants at the site showed a decline in the number of flowering plants since monitoring began in 2002. However, as indicated above, this may not portend a true decline in the population, because Gentner's fritillary does not reproduce sexually.

Studying Gentner's fritillary made me think of a number of biological and philosophical issues. Why does it continue to produce such beautiful, but energetically costly flowers when they



*leaves of vegetative Gentner's fritillary*

don't result in viable offspring? What is the best definition of species? As a hybrid that can reproduce, but doesn't do so sexually, Gentner's fritillary provides another example of how the biological species definition often does not fit well for plant species. I believe that Gentner's fritillary exemplifies the need for conservation-minded people to articulate a moral basis for the protection

of biodiversity at every level, from the subtle variations between alleles to the broad sweep of ecosystem types across the world. This includes Gentner's fritillary, even though its flowers are in reproductive vain, and appear only to be nature's plea to human eyes.



*Habitat for Gentner's fritillary at Pickett Creek*



*Gentner's fritillary flowers*

ALL PHOTOS BY TOM KANE



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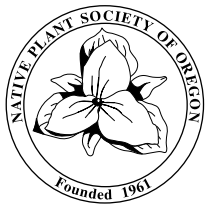
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to create relationships that will include staffing support. Our need for financial support from individuals, businesses, and governmental agencies continues to remain urgent.

The Oregon Flora Project has accomplished a phenomenal amount of work given its limited resources. Our monthly operating budget is minimal: \$8,800 per month covers all our expenses and salaries. With 96% of our budget going to salaries

As of July 1, the Oregon Flora Project will be unable to pay its three staff members, and the coordinator's position will be reduced to 8 paid hours/week. Unsurprisingly, the consequence is that work will slow dramatically. Research will stall until funding can be secured. We are working diligently with the Oregon State University library and colleges

(2.28 FTE), this funding crisis will be shouldered more or less exclusively by the four scientific staff members.

What would be accomplished if we obtain the money to become sustainable? In the second half of 2008, we can keep the Atlas online and current, complete the Checklist and publish it online, and finish the multiple entry key to the grasses. With more support, we can augment our overextended staff and earnestly begin work on the new *Flora of Oregon*.

How will you be impacted if the Atlas is not available? Where will you find taxonomic data and photographs of our state's plants? Whom will you ask to provide you with statewide plant distribution data?

If the Oregon Flora Project contributes to your enjoyment of plants, or makes your job easier to perform, NOW is the time to acknowledge that contribution with your generous financial support. Please make checks payable to NPSO, attn: Oregon Flora Project, and mail to P.O. Box 402, Corvallis, OR 97339-0402.