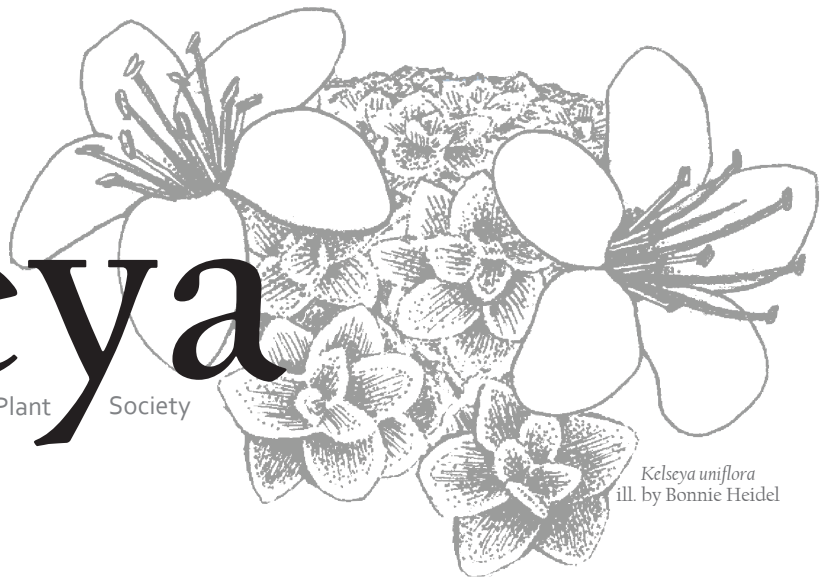


# Kelseya

Newsletter of the Montana Native Plant Society



*Kelseya uniflora*  
ill. by Bonnie Heidel

## Kelseya Revisited: MNPS “Mascot” A State Treasure

*Being pretty much a botany neophyte (Botanica lameiensa) I thought it was high time to do an article about our organization’s plant symbol—Kelseya uniflora—which I have never seen except in photos and illustrations and know almost nothing about. I’ve now made it a priority to find this special Montana treasure, but I’ll have to get moving eastward asap if I want to catch it’s blooms this year!*

*A quick literature search revealed that the most complete (and most interesting) description of Kelseya and the person it’s named for is still that which was written some 25 years ago for the second issue of this newsletter by our own Peter Lesica. Never being one to recreate a wheel, and considering the many new members and friends MNPS has acquired since then, here is Peter’s story again. Enjoy!—Editor*

*Kelseya uniflora* (Watson) Rydberg is an intricately branched, mat-forming, partially evergreen shrub in the Rose family (*Rosaceae*). It has small, reddish-purple flowers that are produced very early in the spring. *Kelseya* is most often found growing from cracks in limestone cliffs, where it forms mats which cover the cliff faces like thick green tapestry.

*Kelseya* is locally common in the mountains east of the Continental Divide from the Little Belt Mountains near Great Falls and the Front Range west of Augusta south to the Centennial Mountains and the Beartooth Mountains on the southern border of the state. It is currently known



*Kelseya uniflora*. Photo by Drake Barton.

from Beaverhead, Big Horn, Broadwater, Carbon, Gallatin, Lewis & Clark, Meagher and Teton counties.

It also occurs in the four counties in northwestern Wyoming and two counties in south-central Idaho. *Kelseya* is a monotypic genus, which means that this one species is so unique that it must be placed by itself in a separate group.

Almost all species of plants in our state are in genera that are more widely distributed elsewhere, but *Kelseya* is found mainly in Montana.

The genus *Kelseya* was named in honor of Francis Duncan Kelsey, who first discovered the plant along the Missouri River northeast of Helena in 1888. One of

*continued on page 7*

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# Chapter Events

## Calypso Chapter

**Saturday, 4/5, 10:00 am - 3:00 pm.** "Gardening With Natives Workshop." Speakers include MSU Professor Cathy Cripps on native mushrooms, Casey Delphia on native bees and Ian Foley on other native pollinators. Native plants, seeds and books will be for sale. Bring a lunch and your own water. Meet at the Divide Grange Hall, one mile west on Hwy 43 off I-15 South in Divide. Info and to sign up: Catherine at 498-6198, nativeplants@montana.com.

**Sunday, 5/18, 8:00 am.** "Ringing Rocks." Join us on this easy, four-hour excursion to an interesting area with "ringing rocks" —bring a hardwood stick to play a tune! A high-clearance car is recommended. Along the way we will stop to look at vegetation on exposed Tertiary sediments and other botanical sights. There will be an option to continue west and north across the drainage to look at Spire Rocks Flat pediment (four-wheel drive required.) Meet at the I-90 Pipestone exit, north side. Info: Mike Garverich, leader, at 587-6830, michael.garverich@mt.usda.gov.

## Clark Fork Chapter

**Wednesday, 4/9, 6:30 pm.** "Waterworks Hill Wildflower Loop." Enjoy a spring hike to see early spring bloomers such as *Douglasia montana*, *Dodecatheon*, *Clarkia pulchellum*, and *Fritillaria pudica*. Meet at the Waterworks trailhead on Greenough Dr. just north of Vine St. Go to [facebook.com/MNPSClarkForkChapter](https://facebook.com/MNPSClarkForkChapter) for map and details. Info: Clare at 728-0189.

**Thursday, 4/10, 7:30 pm.** It's time to polish up your plant ID skills again and get ready for summer. Come look at some of your familiar, favorite wildflowers, and some less well-known, when Chapter photographers show slides of "Wildflowers from East of the Great Divide." Rm Log, Gallagher Business Bldg., UM Campus.

**Early May, date and time TBA.** "Mount Sentinel Budburst." Botanist Michael Krebs will show us which flowers and leaves appear first on Mount Sentinel this year. Hiking up the Evans Street Trail to the fire road, we'll see as many as 130 different species of plants. If there is interest, we'll hike a loop that goes up to the forest patch within 500 feet of the summit. We'll document the progress of spring as part of a long-term study which is incorporated into Project Budburst ([www.budburst.org](http://www.budburst.org)). Meet on the south side of the UM campus, in the parking lot at the corner of Beckwith Ave. and Madeline Ave. Go to [facebook.com/MNPSClarkForkChapter](https://facebook.com/MNPSClarkForkChapter) for map and details. Info: Clare at 728-0189.

**Wednesday, 5/7, 6:30 pm.** "Waterworks Hill Wildflower Loop." Help celebrate National Wildflower Week and enjoy another look at Waterworks Hill to see later spring-blooming flowers such as the rare Missoula phlox (*Phlox missouliensis*) and the treasured bitterroot (*Lewisia rediviva*). Meet at the Waterworks trailhead on Greenough Dr. just north of Vine St. Go to [facebook.com/MNPSClarkForkChapter](https://facebook.com/MNPSClarkForkChapter) for map and details. Info: Clare at 728-0189.

**Thursday, 5/8, 6:30 pm.** Our annual spring potluck again will be held at the home of Joe Elliott and Nancy Volle, 3918 Lincoln Rd., Lincolnwood. Joe and Nancy have a great garden with even a few natives! Bring your own plate, utensils and a dish to share. Info: Joe or Nancy at 542-5014.

**Saturday, 5/24, 7:30 am.** "Clustered Lady Slipper Foray." Using "intel" from Lolo National Forest Superior District Botanist Craig Odegard, we will hope to find one of the state's rare orchids and species of concern, *Cypripedium fasciculatum*, and its associated plants near St. Regis. We will carpool from Missoula. Meet at the north side of the Town Pump gas station (5310 Grant Creek Rd., NE corner of the I-90 interchange with Grant Crk. Rd.). Go to [facebook.com/MNPSClarkForkChapter](https://facebook.com/MNPSClarkForkChapter) for map and details. Info: Clare at 728-0189.

**Thursday, 5/29, 6:30 pm.** "Plant Labeling Party." Nosh on hors d'oeuvres and sweets while preparing this year's plants for sale. Bring your labeling fingers and a savory or sweet dish to share. Info: Clare at 728-0189.

**Saturday, 5/31, 8:00 am – 12:00 pm.** "Annual Montana Native Plant Society Plant Sale." Many species of Montana native plants will be for sale this one day at the Clark Fork River Market (new location) in Missoula. Come early for the best selection.

**Tuesday, 6/3, 6:30 pm.** "Dyer's Woad Pull." Help control Dyer's Woad, a noxious weed in the mustard family, along with helping to restore native grasslands. Twenty-one years ago the Dyer's Woad infestation on Mount Sentinel was 7,000 plants; we now rarely find more than 100. Enjoy the view and the beautiful grasslands during this two-hour weed pull. Wear sturdy shoes and bring rain gear. Meet at the Mount Sentinel trailhead. Info: Marilyn at 544-7189.

**Saturday, 6/7, 1:00 pm.** "European Invaders on Mount Sentinel." Join Marie Curie Fellow and visiting Assistant Professor of Plant Ecology, University of Pécs Robert Pal, on a walk to identify and discuss exotic weeds (many from Europe) on Mount Sentinel. We will begin the field trip with a short slideshow of the featured weed species in their native European ranges, then identify these weeds on Mount Sentinel and discuss the common organization of weed communities – and their impacts on native plants – that we visit. Meet at the Native Plant Garden on the UM Campus (south side of Botany Annex greenhouse).

## Flathead Chapter

Chapter meetings and programs are held the third Wednesday of the month at 7:00 pm, October through May, at the Teakettle Community Hall, 235 Nucleus Avenue, Columbia Falls (look for North Valley Physical Therapy sign). Programs are free and open to the public. Members and the public also are invited to come to the general meeting at 5:30 pm, to discuss Native Plant Society business and projects.

**Wednesday, 4/16.** "Inseparable and Indispensable: Native Plants and Pollinators." Patti Mason, resource conservationist for the Flathead Conservation District, will teach us about the importance of pollinators; threats to pollinators and their implications; major pollinator types and their needs during all life stages; and, how to select plants to support pollinators. Patti will provide handouts and information on various resources.



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**Wednesday, 5/21, 5:30 pm (note different start time).**

"Birdsong Tree Farm Field Trip and Native Plant Sale." Join Valerie Beebe for a walk through her forest near Kila. The property is adjacent to the Smith Lake Waterfowl Production Area and supports a diversity of native and non-native plants. Valerie has a management plan that she is implementing with the help of a conservation easement, Certified Family Forest (tree farm), and lots of hard work. We'll see and hear about changes to the forest community as a result of Valerie's work, and some changes that have occurred on their own. The Center for Native Plants, Windflower Native Plants and anyone else who wants to bring some will have native plants for sale. Bring a picnic supper. To carpool, meet Betty Kuropat at 5:30 pm at the east side of Gateway West Mall (in front of the Social Security and Driver Services office). Info and directions to get to Birdsong Tree Farm directly: Valerie at 253-8536, cedartrees4me@montanasky.us) or Betty, 892-0129, bkuropat@centurytel.net. For more about Birdsong Tree farm, go to <http://facebook.com/pages/Kila-MT/Birdson-Tree-Farm/259383036689>.

**Tuesdays, May and June, 10:00 am.** "Bigfork Wild-Mile Corridor Wildflower Walks." Join Anne Morley and Neal Brown for these gentle strolls to do some spring birding and wildflower identification. This is an easy 2-mile hike along the Old Swan River Road. Meet in front of Showthyme Restaurant. Info: Anne at 886-2242 or Neal at 837-5018.

**Saturday, 5/31, 10:00 am.** "Johnson Mountain Terraces." Enjoy a one to two-mile easy hike along a series of moist, mossy rock terraces with a variety of montane, grassland and diminutive plants. Meet at the rest area by the soccer fields across from Grouse Mountain Lodge in Whitefish. Bring your favorite plant ID book. Info and to sign up: Betty at 892-0129.

**Wednesday, 6/4, 7:00 pm.** "Native Plant Garden Tour." Join native plant gardener Teresa Geyer Stump for a tour of the FVCC and Museum at Central School Native Plant Gardens. Meet at FVCC, Blake Hall, Board Room (SCA 140) for an informal presentation, followed by the tour. Wheelchair accessible. Info: Teresa at 471-3786, acacia78@bresnan.net.

**Tuesday, 6/10, 5:30 pm.** "Columbia Mountain Field Trip." Join Glacier National Park Ecologist Tara Carolin on a two-hour evening walk up the Columbia Mountain trail. Enjoy spring and early summer blooms along the forested trail that also offers lovely rock outcrops in the sunshine. Although the trail can be a little steep in places, the pace will be slow and we only will be going a couple of miles at most. Meet at the Columbia Mountain parking lot and trailhead. Bring a sack supper if you like. Info: Tara at 755-9412, writetaraywc@yahoo.com.

**Tuesday, 7/29, 10:00 am.** "Glacier National Park Weed Blitz." Join other citizens in removing invasive plants from priority sites in Glacier National Park. Park Biologist Dawn LaFleur will train participants on identification and effective hand-pulling techniques for targeted weed species. Meet at the West Glacier Community Building. Space is limited. Info and to sign up: Dawn, dawn\_lafleur@nps.gov. If there is sufficient interest, a second date may be set.

## Kelsey Chapter

Patrick Plantenberg and Bob Person currently are planning Chapter events and would welcome any ideas or input

from other members. They are working on the annual May Wildflower Week events and a June Native Garden Tour. Info: Patrick, m2andp2@mt.net or Bob, bob.person@mcn.net

## Maka Flora Chapter

Members are invited to a planning meeting on April 5. Info: Libby Knotts at 774-3778, rek@midrivers.net.

## Valley of Flowers Chapter

Meetings are held the second Tuesday of the month at 7:00 pm, October through April, in Rm108, Plant Biosciences Building, MSU campus, unless otherwise announced. Info: Joanne at 586-9585.

**Tuesday, 4/8.** "Add a Native?" Jan Cashman and Denise Montgomery of Cashman Nursery in Bozeman will discuss enhancing gardens with native plants, showing live examples of some of the natives they offer.

**Saturday, 4/26, 9:00 am.** "Clean Up Bozeman Day." We will continue our assault on knapweed and other invasives on the Kagy Blvd. road cut between Church and Highland Blvd., followed by a spring cleanup at the Pollinator Garden in Langohr Park, north of the intersection of Mason and Tracy. Meet first on Kagy Blvd. Wear sturdy shoes and gloves, and bring a dandelion digger or other weeding tool.

**Saturday, 6/21, 9:00 am.** "First Day of Summer Wildflower Walk." Stroll with biologist Sharon Eversman to see natives along the Hyalite View trail. Meet at the trailhead. To find it, go east 1/4 mile on Kagy Blvd. from Highland Blvd. to the place where the trail dips downhill toward the north. Park along the road. Bring water; plant ID book and a hand lens are nice but not necessary.

**Friday-Sunday, 6/27-29.** "MNPS Annual Meeting." VOF Chapter is hosting this year's meeting at Luccock Park, Paradise Valley. (See insert for details and registration form.)

## Eastern At-Large

Two hikes are planned for July; dates, times and meeting locations to be announced. One will be to Ear Mountain Outstanding Natural Area and Yeager Flats, the other to Preston Park in Glacier National Park. More details to come in the upcoming Field Trip Guide. Info: Dave at 466-2161.

## Western At-Large

**Saturday, 6/21, 9:30 am.** "Pulpit Mountain Field Trip." This moderate hike follows an established trail along an open ridge en route to Pulpit Mountain (6,556-ft), near Troy. Peter Lesica will join us for his annual MNPS hike in NW Montana. Anyone who has been around Peter knows of his botanical knowledge and sense of humor, as well as his love for our state's natural beauty. Don't miss this opportunity to learn about our region's flora from the state expert! Total length of the hike is 8.2 miles with an elevation gain of 1,600-ft. To carpool to the trailhead, meet in the parking lot of the Troy Museum (next to Stein's IGA store). Bring water, lunch and appropriate clothing for this time of year. A camera is also recommended as there will be excellent views of the Kootenai River, the Cabinet Mountains and the Bull River valley. Info: Jon Reny, hike leader, at 334-0459, jreny@kvis.net.



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# News & Notes



Looking at all the snow we still have (as of late March), it's hard to believe spring is here! Most of us are eagerly looking forward to warmer weather, increased light and the emergence of plants and insects from their winter slumber. As plants begin to bloom it's a great time to begin observing pollinators, even in the midst of melting snow and cold. As they emerge, insects begin feeding on the nectar of flowers and pollinate them in the process. While this is a vital step in the reproduction of native plants, it is also an essential component of our world's complex food web.

Concern over the serious decline in pollinator populations in recent years has inspired many homeowners, landscape designers and land managers to provide and improve habitat for insects by incorporating native plants into landscapes. In keeping with the theme of pollinators from the recent MNPS Plant Conference, let's encourage each other to observe insects and supply them with their primary food—native plants.

Growing species that we know attract pollinators is a great first step. Providing a diverse native plant palette allows us to learn from the interactions between numerous native pollinators and individual plant species. Armed with this information we can determine which plants provide maximum habitat and

do our part to both promote and grow these plants as we recognize the critical role of native plants in maintaining our ecosystems.

Good growing and keep watching the pollinators!

— Kathy Settevendemie

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## Get Ready for Fire and Ice MNPS 2014 Annual Meeting

Valley of Flowers Chapter members invite you to experience “Fire and Ice” in the Paradise Valley at this year's MNPS Annual Meeting, June 27-29. The meeting will be headquartered at Luccock Park Camp on Pine Creek, south of Livingston, and field trips are designed to explore surrounding areas that have been marked repeatedly by wildfire and glaciation.

There will be workshops on plant and grass identification, and on native pollinators. Field trips will include explorations of the Gallatin Petrified Forest, post-fire succession in the Paradise Valley, wetland habitats, medicinal plants, mushroom ecology and alpine regions. Families with kids are encouraged to attend and there will be special guided activities for children on Saturday.

Roy Renkin, forest scientist from Yellowstone National Park, will be the evening's featured speaker. He will discuss post-fire plant community succession in the Greater Yellowstone.

For more details and to register, please see the insert in this newsletter or visit [www.mtnativeplants.org](http://www.mtnativeplants.org).

## Welcome New Members!

The Montana Native Plant Society welcomes the following new members:

### **Calypso Chapter:**

Krystal Weilage, Steve Smith and Linn Veen,  
Elizabeth and Mark Bergstrom,  
Noojahan Parwana and Steve Sherman

### **Clark Fork Chapter:**

Samantha O'Byrne, Deborah BanDrosky,  
Sandra Kochis and Karen Weaver

### **Flathead Chapter:**

Edward Zyniecki and Valerie Beebe

### **Kelsey Chapter:**

Gary Malecha. Special thanks to  
Stephen Cooper for his life-time membership.

### **Valley of Flowers Chapter:**

Larry Barnard

### **Western-At-Large:**

Chris and Jackie Reichert and Pat McLeon

### **State At-Large:**

Robby McMinn and Cristina McKernan



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## 2014 Small Grants Awarded

by Linda Lyon, Calypso Chapter and Small Grants Committee Chair

The MNPS Small Grant Committee and the Board of Directors would like to congratulate Elizabeth Pansing, University of Colorado, and Lisa Bickell, Montana Natural History Center, on being selected to receive 2014 MPNS Small Grant Awards. Both projects are set to begin this spring.

The committee received 16 applications this year—a record number! Here are brief descriptions of the funded projects:

Elizabeth Pansing, a graduate student in the Department of Integrative Biology at the University of Colorado, Denver, proposed “Whitebark Pine Regeneration in Two Subalpine and Treeline Locations: Examining the Role of Microsite Type and Rodent Seed Theft.” Pansing has been conducting the first experimentally rigorous test of “direct seeding,” a largely untried restoration technique for whitebark pine (*Pinus albicaulis* Engelm.), which could significantly reduce the cost, time and labor of restoration projects. She has sowed whitebark pine seeds in both subalpine and treeline forest in common microsite types, simulating the caches made by Clark’s nutcracker (*Nucifraga columbiana*), the main whitebark pine seed disperser. In 2013, she monitored these sites for germination and seed loss caused by rodents, and trapped rodents to determine which species eat seeds. In 2014, with support from the MNPS Small Grant, she will monitor for second-year germination and first-year survival, and determine whether rodents recache seeds in sites suitable for germination.

Lisa Bickell, education director for the Montana Natural History Center in Missoula, proposed an infrastructure grant for the Native Plant Garden at Fort Missoula. More than 10 years ago, MNHC worked with the University of Montana to rehabilitate a garden space at Fort Missoula, converting it from a knapweed field and small storage structure into a thriving native plant teaching and demonstration garden and a three-season classroom. In 2012, MNHC worked with community partners to convert the building into a functional and attractive meeting space for volunteer events, evening programs, teacher workshops, school field trips and summer camp programs. Each year, the facility welcomes nearly 1,000 children and adults to the garden for various programs and events. The Montana Natural History Center maintains and provides programming at the Native Plant Garden at Fort Missoula in cooperation with UM’s Natural Areas Program. Funding from the Small Grants program will assist with supplies and the rental of a much-needed portable toilet, necessary to operate quality programming for kids and adults at the garden.

## Election Time Again! Candidates for 2014 MNPS Offices

By Patrick Plantenberg, Kelsey Chapter and MNPS Secretary

Karen Shelly of the Clark Fork Chapter in Missoula has agreed to run again for Vice President. Karen has finished her graduate work in Geography at the University of Montana and is currently seeking gainful botanical employment. Karen has served as Vice President for the past five years. Prior to her move to Montana in 2005, she was the State Natural Areas Coordinator for the Missouri Department of Conservation.

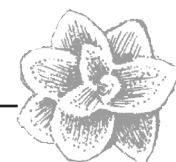
Incumbent Secretary, Patrick Plantenberg of the Kelsey Chapter in Helena and resident of Townsend, also has offered to remain in that role under Kathy Settevendemie’s Presidency. Patrick has been MNPS Secretary for several terms. Beside being chair of the Election Committee, he works as a reclamation specialist for the State of Montana, plants trees for the city of Townsend, is chair of the MT Urban and Community Forestry Association and is an edible wild plant enthusiast. He is also active in service organizations in Townsend.

Jennifer Lyman, professor of Environmental Science and Studies at Rocky Mountain College in Billings, has agreed to run for Eastern Representative-At-Large. Jennifer has a B.A. from Wellesley College and a M.S. and Ph.D. from the University of California-Riverside. She is interested in plant ecology issues on local and global scales. Locally, she is involved in an ongoing study of the plants and habitats on two islands in the Yellowstone River. She also has worked for many summers in Kazakhstan in Central Asia to learn about plants in a variety of habitats. She wants to know, among other things, what plant species are rare in each place and why.

Don’t forget: **MNPS members can submit ballots to the MNPS Electoral College via e-mail.** Please visit the MNPS website at [www.mtnativeplants.org](http://www.mtnativeplants.org) and look for the link to 2014 Elections. Fill out the ballot and e-mail it to the MNPS Electoral College in Townsend at [m2andp2@mt.net](mailto:m2andp2@mt.net).

If you prefer snail mail, fill out and mail the enclosed official ballot today. Results will be announced at the MNPS Annual Meeting, June 27-29, 2014 at Luccock Park on Pine Creek, south of Livingston.

Thank you for your vote!



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## Plant Conservation Conference: Forest Management Resting on the Wings of Pollinators

*By Robin Taylor-Davenport, Forest Botanist, Bitterroot National Forest*

For the past several years the U.S. Forest Service has seen the important role that pollinators play on National Forests. In response, the agency has implemented a Native Plant/Pollinator Initiative to raise awareness of the importance of pollinators. The ongoing initiative, organized by the Northern Region's Native Plant Program, encourages pollinator conservation and provides funding for establishment of native plant gardens for educational interpretation and as safe havens for pollinators.

Since 2008, 25 pollinator gardens have been established on eleven National Forests and Grasslands in Idaho, Montana, and North and South Dakota. The gardens are tailored to native plants and pollinators found within the local area, at the same time promoting related themes of climate-change effects on pollinators, xeriscaping with native plants, restoring open space, and resource and energy conservation. Gardens are located in areas of high public exposure, where they provide educational opportunities for local schools and community organizations such as Boy Scouts and Girl Scouts, 4-H, garden clubs and after-school programs. The Forest Service partners with the local communities in establishing the gardens, and community members help out by donating materials, sowing and maintaining native plants, and assisting in the development and construction of interpretative signs and brochures.

Many botanists working for the Forest Service ask "What else can we do on the ground and on our Forests to incorporate pollinators?" So, when topics for the recent Montana Plant Conservation Conference in Bozeman were being requested, I suggested topics on pollinators and land management. The February conference offered a variety of talks on pollinators, from identification to responses to environmental factors. The conference included specialist speakers who provided a wealth of information on topics such as habitat types for pollinators, species of pollinators found in Montana and characteristics of rare bees.

As a result, I left the conference with a greater understanding of pollinators and how they respond to different factors such as forest restoration, climate change and fire, to name just a few. I'm also armed with an abundance of new resources (handouts/websites) and professional contacts. The conference provided a baseline to work from and new knowledge that I can utilize for future projects on the ground. I look forward to conducting some monitoring on a pollinator-focused restoration project that was implemented last fall. I will be identifying what pollinators are found there and incorporating the information I've learned about pollinators and restoration with work that has already been started.



MNPS Vice President Karen Shelly welcomes participants to the February Plant Conservation Conference in Bozeman Photo by Peter Lesica.



Montana's first resident botanists, Francis Kelsey was born in Indiana in 1849 and spent most of his early years in Ohio. He received a Bachelor's degree from Marietta College in Ohio and attended the Andover Theological Seminary in Massachusetts, then served as a Congregational minister in Maine and Massachusetts before moving to Montana in 1885.

Kelsey served as a minister in Helena from 1885 to 1893. From 1887 to 1890 he was also a lecturer at the College of Montana in Deer Lodge. During this time Kelsey studied the flora and collected nearly 500 fungi and over 650 vascular plant specimens. Twenty-three of the fungal specimens and 18 of the vascular plant specimens were nomenclatural types. He discovered at least five plant species that were new to science. These include Kelsey's milkvetch (*Astragalus astropubescens*), small shooting star (*Dodecatheon conjugens*), Kelseya (*Kelseya uniflora*), white-margined phlox (*Phlox albomarginata*) and Kelsey's phlox (*Phlox kelseyi*).

Most of these plants he discovered within a few miles of Helena. The majority of his collections were made in Lewis & Clark, Jefferson and Powell counties, but he also collected in Cascade, Deer Lodge, Gallatin, Granite, Madison, Park, Sweet Grass and Yellowstone counties. Kelsey's collecting and teaching of the local flora did much to arouse interest in botany throughout the state. He directed the assembly of a collection of Montana plant specimens for display at the 1893 World's Fair. This collection is now housed at the herbarium at Montana State University in Bozeman. The remainder of his collection (eventually totalling more than 6,000 specimens) is at the herbarium of Miami University in Ohio.

Francis Kelsey left Montana in 1893 to accept the first professorship of Botany at Oberlin College in Ohio. During this time he organized his herbarium and published a dozen professional papers, many of them dealing with his Montana experiences. In 1897, he accepted a pastorate in Toledo, Ohio, and was a lecturer in botany at the Smead School for Girls until his death in 1905.

*Peter Lesica is a founding member of MNPS and actively involved in the Clark Fork Chapter. He is a professional botanist.*



Illustration by E. H. Galligan



Photo by Drake Barton

*Kelseya uniflora* is a mat-forming shrub and grows on limestone rock often on vertical faces. It has tiny blue-green rosettes and small flowers of pinkish white. The branches have fine hairs on the underside that make their way into any crack that can supply moisture.



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## Kathy Lloyd: We'll Miss Your Hard Work and Dedication

By Karen Shelly, MNPS Vice-President



Kathy Lloyd in City of Rocks National Reserve, Idaho. Photo by Drake Barton.

After seventeen years of devoted service, Kathy Lloyd is stepping down as president of the society's Kelsey Chapter. Her hard work and meticulous attention to detail will be greatly missed. In addition to being Kelsey Chapter president, Kathy was the *Kelsey* newsletter co-editor with Drake Barton from 2001 to 2008. Here are some recollections and highlights of Kelsey Chapter activities during her tenure:

"Bonnie Heidel, the Montana Natural Heritage Program botanist and previous Chapter president, talked me into taking over in 1996," Kathy says. "I felt uncertain and remember being very nervous at the first board meeting I attended. After all, plant people can be very scary and intimidating!"

Kathy soon left the intimidation behind and went to work. "My biggest source of pride has been the numerous hikes, public presentations, potlucks and workshops we've successfully put on throughout the years, including the wildly popular Native Landscaping and Wild Edibles workshops hosted by Patrick Plantenberg," she says.

Some significant Chapter efforts have focused on Mount Helena. First was the Mount Helena Weed Control Project, an ongoing Kelsey Chapter endeavor that Bonnie began with the Helena Parks Administration and the County Extension Service. "We developed a weed brochure for Mount Helena and the Chapter sponsored several weed pulls and educational events."

Among the longest-running achievements, she says, has been the National Wildflower Week celebration, held annually on Mount Helena since 1996. This event is an ongoing association with the Helena National Forest

and, more recently, the Discovery Foundation, during which grade school students are exposed to various outdoor learning stations and take wildflower hikes on Mount Helena. Kathy Martin has been the guiding force behind Kelsey Chapter participation.

In May 1998, the Chapter organized a special celebration of the natural history of Mount Helena, focused around the then-recently published Falcon Guide to "Exploring Mount Helena." Authors of various chapters in the book presented information about Mount Helena's birds, animals, plants and future plans for the mountain. "I gave a talk about the Flora of Mount Helena project that had recently gotten underway. More than 100 people attended the event – a big deal for us!," Kathy remembers.

Based on several years of work, in 1999 a collection of approximately 300 Mount Helena vascular plant specimens, photos and articles were assembled in a custom-built cabinet and donated to the Lewis and Clark Library. The data were subsequently posted on Lewis and Clark Library's website as a searchable database.

Also in that timeframe, Kathy recalls that the Chapter and the Helena National Forest cooperated on a revegetation project in White's Gulch, planting willows along a reclaimed stream. The stream had been extensively altered due to placer mining and dredging, and was restored with a more natural floodplain and meanders.

Always looking to spread the word about native plants, Kathy led the Chapter in providing native plant education through a variety of means. Native plant articles and photos were featured in the Helena Independent Record from 1995-2006, authored by various Kelsey members. Kathy remembers that in April 1997, the Chapter hosted a display of Keith Leatherman's wildflower photographs at the State Capitol in Helena during the legislative session. A brochure was developed that visitors could use to interpret the photos and learn about the mission of MNPS. The Chapter held "Hands-on Plants" study sessions at Carroll College from 2001 to 2012. In 2002, three pressed and mounted specimens of Bitterroot, *Lewisia rediviva*, were donated to the Montana Historical Society for use in the educational trunk called Montana Treasures.

In the same year, the Montana Landscapes and Invasive Plants Calendar was published, guided



by Kathy as representative from the Montana Native Plant Society. "Landscaping with Montana Native Plants: A Guide for the Helena Area," an information packet designed to assist landowners in native plant landscaping, also was developed and sold at nominal cost. Currently, all that information is available on the MNPS website free of charge. To top it off, Kathy put together the production of "Plants Collected in Montana During the Lewis and Clark Expedition and Housed in the Lewis and Clark Herbarium at the Academy of Natural Sciences in Philadelphia;" "Lewis and Clark Plants Collected Elsewhere that Occur in Montana;" and wrote a series of 32 articles with photos of Lewis and Clark plants collected in Montana that were posted on the Montana Fish, Wildlife and Parks website and the MNPS website.

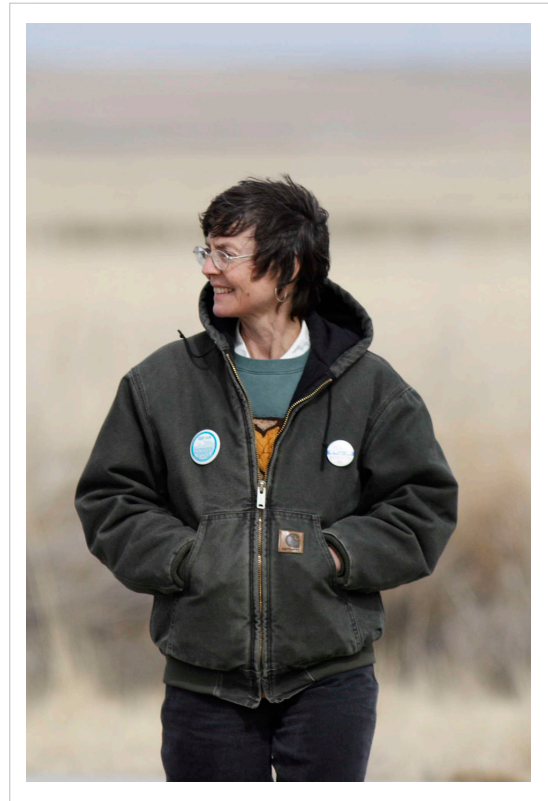
Under Kathy's leadership, two Montana Plant Conservation Conferences (2006 and 2012) were held in Helena with help from the Kelsey Chapter. With her guidance, the Chapter also has provided funding for native plantings in Townsend, MT and at Carroll College. It contributed to the "Flora of North America" by sponsoring an illustration of the moss *Scorpidium scorpioides*. Books donated by the Chapter to the Lewis and Clark Library include "Jewels of the Plains" by Claude Barr, "Vascular Plants of Montana" by Robert Dorn; "Wildflowers of Glacier National Park" by Shannon Kimball and Peter Lesica; "Flora of Glacier National Park" by Peter Lesica; "High and Dry: Gardening with Cold-hardy Dryland Plants" by Robert Nold; and "Manual of Montana Vascular Plants" by Peter Lesica.

The Kelsey Chapter has hosted three Annual Meetings under Kathy's direction: In 1999, "Botany on the Rocks" at Camp Thunderbird, MacDonald Pass; in 2007, the 20th Anniversary Celebration at Camp Watanopa, Georgetown Lake; and in 2013, "A Little Botany in the Little Belts" at Camp Rotary.

"We started the Annual Meeting Planning Notebooks after the 1999 meeting. They have been passed from Chapter to Chapter since then," she says. In 2013, a digital version was begun.

As if all these accomplishments were not enough, Kathy has served on the state Board of Directors during her entire presidential tenure. We are fortunate that she is willing to retain that responsibility for a while longer as Kelsey Chapter representative.

Thank you, Kathy, for all that you have given our organization, for giving us an opportunity to look back into native plant time, and for the occasion to appreciate your leadership. Your efforts will not soon be forgotten!



Kathy at Freezeout Lake. Photo by Drake Barton.



Kathy Lloyd on vacation at Organ Pipes National Monument, Arizona. Photo by Drake Barton.





*Cornus canadensis*. Photo by Brian Gratwicke

## Potent Pollen Propulsion!

by Kimberly Gould, Alberta Native Plant Council. Reprinted from *Iris*, March 2014

In 2005, Whitaker and others documented an interesting characteristic of Canada bunchberry (*Cornus canadensis*). Upon examining the stamens of this subshrub, before and after pollen release, they found the potential to launch pollen similar to seed dispersal in touch-me-nots, or *Impatiens*. Slow motion video captured the results of the first millisecond after the flower was touched with very fine wire. The bent filaments, fused at the anthers, store elastic energy that is released as they spring to full length, their pollen flying with them.

For those less familiar with bunchberry, it is found throughout the boreal forest and is a common understorey species in aspen parkland. Like other *Cornus* species, the leaves have deep parallel venation with a network of finer veins between. The flowers are inconspicuous, about the size of a pinhead, with many in a cluster. As flowers mature, you will often find one or two 'black' points among the 'white'. The black flowers are actually the dark purple style, previously hidden behind the fused white anthers. Each one develops a single seed and swells nearly a centimetre in diameter to form a fleshy, bright orange-red berry.

Although the flowers are small and inconspicuous among their showy creamy white bracts, they can send pollen an impressive 2.5 cm into the air, far enough to stick to the insect that triggered the release or to be caught on the wind and carried more than a meter before landing. You can watch video of the explosive action on YouTube (<http://www.youtube.com/watch?v=aFR17bXonol>).

## Twisted Stalk

By Walter Fertig, Utah Native Plant Society. Reprinted from *Sego Lily*, January 2014.

To the non-botanist, scientific names of plants can sound silly, old-fashioned, or even a bit pretentious. Sometimes, however, the Latin name can be quite descriptive and even a bit mellifluous. One of my favorites to pronounce is *Streptopus amplexifolius*, also known by its less melodious common name as twisted stalk. Technically derived from Greek, "streptos" is twisted and "pous" is footed, referring to the diagnostic 90 degree twist in the flower stalk after it emerges from the base of the upper leaves. To complete the etymology, "amplexi" means clasping and "folius" is leaf, in reference to the upper leaves that snugly embrace the stem.

*Streptopus amplexifolius* is one of seven species in its genus that range across temperate areas of North America, northern Europe and Asia. Carl Linnaeus himself named the species in his seminal work, "Species Plantarum," though initially as a member of a similar genus in the lily family, *Uvularia*. Twisted stalk ranges across Canada and south to California, the Rocky Mountains and over much of the eastern United States. It is typically found in moist, shady mountain forests and streamsides.

Like other monocots, twisted stalk has parallel-veined leaves with smooth margins. Flowers are relatively small and consist of six greenish-white tepals (sepals and petals that are of similar size, color and texture). Only one flower occurs on each flower stalk and these hang downward, thanks to the distinctive "twist." The flowers give rise to a single, elliptic yellow or red berry, which is edible. Wayne Phillips, retired Forest Service ecologist, author and noted Lewis and Clark impersonator, reports that the green shoots also are edible and taste like cucumber when eaten raw.

Populations tend to be small and the species can be mistaken for the poisonous *Veratrum*, so perhaps twisted stalk is better left unsampled for others to observe rather than taste.



*Streptopus amplexifolius*. Photo by Walter Siegmund



## MNPS Chapters & the Areas They Serve

CALYPSO CHAPTER - Beaverhead, Madison, Deer Lodge, and Silver Bow Counties; southwestern Montana  
 CLARK FORK CHAPTER - Lake, Mineral, Missoula, Powell, and Ravalli Counties  
 FLATHEAD CHAPTER - Flathead and Lake Counties plus Glacier National Park  
 KELSEY CHAPTER - Lewis & Clark, Jefferson, and Broadwater Counties  
 MAKA FLORA CHAPTER - Richland, Roosevelt, McCone, Sheridan, and Daniels Counties  
 VALLEY OF FLOWERS CHAPTER - Gallatin, Park, and Sweet Grass Counties plus Yellowstone National Park

All MNPS chapters welcome members from areas other than those indicated. We've listed counties just to give you some idea of what part of the state is served by each chapter. Watch for meeting announcements in your local newspaper. Ten paid members are required for a chapter to be eligible for acceptance in MNPS.

Your mailing label tells you the following:

CHAPTER AFFILIATION: CAL=Calyпсо; CF=Clark Fork; F=Flathead; K=Kelsey; MF= Maka Flora; VOF=Valley of Flowers

YEAR YOUR MEMBERSHIP EXPIRES: Memberships expire in February of the year listed on your mailing label.

**Use this form to join MNPS only if you are a first-time member!** To renew a membership, please wait for your yellow renewal card in the mail. **Moving? Please notify us promptly of address changes at [mtnativeplantmembership@gmail.com](mailto:mtnativeplantmembership@gmail.com).**

Membership in Montana Native Plant Society is on a calendar-year basis, March 1 through the end of February of the following year. New-member applications processed before the end of October each year will expire the following February; those processed after November 1 will expire in February of the year after. Membership renewal notices are mailed to each member in January. Please renew your membership before the summer issue of *Kelsey* so your name is not dropped from our mailing list. Your continued support is crucial to the conservation of native plants in Montana. THANK YOU!

## MONTANA NATIVE PLANT SOCIETY MEMBERSHIP

Name (please print) \_\_\_\_\_ E-mail \_\_\_\_\_

Address \_\_\_\_\_ City/State/Zip \_\_\_\_\_

Phone \_\_\_\_\_ Chapter Affiliation (optional) \_\_\_\_\_

Delivery preference \_\_\_\_\_ paper copy by mail \_\_\_\_\_ digital copy by email

*You will receive membership acknowledgement by email, as well as a pdf of the most recent Kelsey. Future newsletter issues will arrive according to your preference indicated above.*

**JOIN OR RENEW ONLINE at  
[www.mtnativeplants.org](http://www.mtnativeplants.org)**

or by mail at  
 Montana Native Plant Society  
 P.O. Box 8783  
 Missoula, MT 59807-8783

Membership Level	Dues w/affiliation	Dues w/o affiliation
Individual	\$20	\$15
Family	\$25	\$20
Business/Organization	\$40	\$35
Living Lightly	\$15	\$15
Lifetime (one-time pymt)	\$300 per household	-----

*Canadian subscribers please add \$4.00 to cover mailing costs. Additional donations may be specified for a particular project or the general fund.*



## About Montana Native Plant Society

The Montana Native Plant Society (MNPS) is a 501(c)(3) not-for-profit corporation chartered for the purpose of preserving, conserving, and studying the native plants and plant communities of Montana, and educating the public about the value of our native flora. Contributions to MNPS are tax deductible, and may be designated for a specific project or chapter, for the Small Grants fund, or the general operating fund.

Your yearly membership fee includes a subscription to *Kelsey*, the quarterly newsletter of MNPS. We welcome your articles, field trip reports, book review, or anything that relates to native plants or the Society. Please include a line or two of "bio" information with each article. Drawings should be in black ink or a good quality photocopy. All items should be typed, saved in Microsoft Word or rich text format (rtf), and sent electronically to: carokurtz@gmail.com or mailed to Kelsey Editor, 645 Beverly Avenue, Missoula, MT, 59801.

Changes of address, inquiries about membership, and general correspondence should be sent to MNPS Membership, 398 Jeffers Road, Ennis, MT 59729. Advertising space is available in each issue at \$5/column inch. Ads must be camera-ready and must meet the guidelines set by the Board of Directors for suitable subject matter; that is, be related in some way to native plants or the interests of MNPS members.

The deadline for each issue is Fall–September 10; Winter–December 10; Spring–March 10; Field Trip Guide–April 10; Summer–June 10. Please send web items to our webmaster concurrent with these dates.

If you want extra copies of *Kelsey* for friends or family, call the Newsletter Editor or email: carokurtz@gmail.com. No part of this publication may be reprinted without the consent of MNPS. Reprint requests should be directed to the Newsletter Editor.

Visit our website at: [www.mtnativeplants.org](http://www.mtnativeplants.org) or contact our webmaster Bob Person at: [thepersons@mcn.net](mailto:thepersons@mcn.net)

## MNPS Board of Directors

President	Kathy Settevendemie	Potomac	244-5800
Past-President	Dave Hanna	Choteau	466-3661
Vice President	Karen Shelly	Missoula	542-0620
Secretary	Patrick Plantenberg	Townsend	266-5265
Treasurer	Jenny Tollefson	Missoula	381-3331
Newsletter Editor	Caroline Kurtz	Missoula	239-2695
<b>Directors At-Large</b>			
Eastern Montana	David Shea	Choteau	466-2161
Western Montana	Jon Reny	Libby	334-0459
<b>Chapter Representatives</b>			
Calypso Chapter	Catherine Cain	Glen	498-6198
Clark Fork Chapter	Anne Garde	Missoula	721-7627
Flathead Chapter	Jennifer Hintz	Whitefish	270-7028
Kelsey Chapter	VACANT		
Maka Flora Chapter	Libby Knotts	Lambert	774-3778
Valley of Flowers Chapter	Joanne Jennings	Bozeman	586-9585
<b>Standing Committees</b>			
Conservation	Peter Lesica	Missoula	728-8740
Membership	Cathie Jean	Ennis	599-9614
Landscaping/Reveg	Madeline Mazurski	Missoula	542-0262
	Clare Beelman	Missoula	
Small Grants	Linda Lyon	Dillon	683-2878

Moving? Please let us know at [mtnativeplantmembership@gmail.com](mailto:mtnativeplantmembership@gmail.com)

## Montana Native Plant Society

*Membership Chair*

398 Jeffers Road

Ennis, MT 59729

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Montana Native Plant Society

Printed on recycled paper

FROM: \_\_\_\_\_  
\_\_\_\_\_  
(Place native flower label here)\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Native  
Flower  
Stamp

TO: Montana Native Plant Society  
Electoral College  
133 N. Maple  
Townsend, MT 59644

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Fold Here

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**OFFICIAL 2014 MNPS ELECTION BALLOT**

If you would rather e-mail your ballot to the MNPS Electoral College in Townsend, please log on to the MNPS website at [www.mtnativeplants.org](http://www.mtnativeplants.org) and look for the link to "2014 Elections!!" where there will be a link to the ballot. Please vote for the candidate of your choice, a write-in candidate, or yourself. Please indicate your Chapter affiliation or if you are a Western- or Eastern-at-Large member and not affiliated with a Chapter. Election results will be announced at the Annual Meeting on June 27 – June 29, 2014 at Luccock Park on Pine Creek in the beautiful Paradise Valley south of Livingston.

**CANDIDATE FOR VICE PRESIDENT**

- KAREN SHELLY**
  - \_\_\_\_\_  
**Write-in candidate**
- 

**CANDIDATE FOR SECRETARY**

- PATRICK PLANTENBERG**
  - \_\_\_\_\_  
**Write-in candidate**
- 

**CANDIDATE FOR EASTERN REPRESENTATIVE-AT-LARGE**

- JENNIFER LYMAN**
  - \_\_\_\_\_  
**Write-in candidate**
- 

**CHAPTER AFILIATION**

- |                                     |  |   |
|-------------------------------------|--|---|
| <input type="checkbox"/> Calypso    | <input type="checkbox"/> Kelsey            | <input type="checkbox"/> Eastern-at-Large |
| <input type="checkbox"/> Clark Fork | <input type="checkbox"/> Maka Flora        | <input type="checkbox"/> Western-at-Large |
| <input type="checkbox"/> Flathead   | <input type="checkbox"/> Valley of Flowers |   |
- 

**NUMBER OF PAID MEMBERS IN YOUR HOUSEHOLD \_\_\_\_\_**

**THE MNPS ELECTORAL COLLEGE THANKS YOU**

**MNPS 2013 BUDGET SUMMARY:12/31/2013**

Prepared by: Jenny Tollefson MNPS Treasurer

	<u>Proposed Inc.</u>	<u>Income</u>	<u>Proposed Exp.</u>	<u>Expenses</u>	<u>Proposed Var.</u>	<u>Variance</u>
<b><u>GENERAL OPERATING EXPENSES</u></b>						
Membership	\$6,500.00	\$6,536.82	(\$500.00)	(\$276.42)	\$6,000.00	\$6,260.40
Newsletter	\$0.00	\$0.00	(\$6,500.00)	(\$4,660.40)	(\$6,500.00)	(\$4,660.40)
<b>Operating Budget</b>	<b>\$350.00</b>	<b>\$264.28</b>	<b>(\$2,025.00)</b>	<b>(\$1,325.94)</b>	<b>(\$1,675.00)</b>	<b>(\$1,061.66)</b>
Awards	\$0.00	\$0.00	(\$400.00)	(\$307.21)		
Committees	\$0.00	\$0.00	(\$200.00)	\$0.00		
Board Expenses	\$0.00	\$0.00	(\$200.00)	(\$104.72)		
Interest Income	\$50.00	\$9.28	\$0.00	\$0.00		
Website	\$0.00	\$0.00	(\$350.00)	(\$348.00)		
Donations	\$300.00	\$255.00	\$0.00	\$0.00		
Publications	\$0.00	\$0.00	(\$500.00)	(\$461.01)		
Operating Expenses	\$0.00	\$0.00	(\$75.00)	(\$75.00)		
At-Large Expenses	\$0.00	\$0.00	(\$300.00)	(\$30.00)		
<b>GOE TOTALS</b>	<b>\$6,850.00</b>	<b>\$6,801.10</b>	<b>(\$9,025.00)</b>	<b>(\$6,262.76)</b>	<b>(\$2,175.00)</b>	<b>\$538.34</b>
<b><u>SPECIAL PROJECTS</u></b>						
Small Grants Fund	\$0.00	\$0.00	(\$2,000.00)	(\$1,500.00)		
UM Herbarium Donation	\$0.00	\$0.00	(\$300.00)	(\$300.00)		
MT Audubon Donation	\$0.00	\$0.00	(\$400.00)	(\$400.00)		
Chapter Projects	\$0.00	\$0.00	(\$500.00)	(\$290.66)		
Merchandise Sales	\$50.00	\$612.00	\$0.00	\$0.00		
Annual Meeting 2013	\$1,500.00	\$6,935.03	\$0.00	(\$4,638.06)		
Plant Conservation Conference	\$0.00	\$0.00	\$0.00	\$0.00		
Flora of Montana Book Sales	\$50.00	\$36.42	\$0.00	\$0.00		
Flora of Montana Royalties	\$20,861.00	\$20,295.37	\$0.00	\$0.00		
<b>SPECIAL PROJECTS TOTALS</b>	<b>\$22,461.00</b>	<b>\$27,878.82</b>	<b>(\$3,200.00)</b>	<b>(\$7,128.72)</b>	<b>\$19,261.00</b>	<b>\$20,750.10</b>
<b>TOTALS</b>	<b>\$29,311.00</b>	<b>\$34,679.92</b>	<b>(\$12,225.00)</b>	<b>(\$13,391.48)</b>	<b>\$17,086.00</b>	<b>\$21,288.44</b>

**MNPS 2014 BUDGET**

Prepared by: Jenny Tollefson MNPS Treasurer

	<u>Proposed Inc.</u>	<u>Income</u>	<u>Proposed Exp.</u>	<u>Expenses</u>	<u>Proposed Var.</u>	<u>Variance</u>
<b><u>GENERAL OPERATING EXPENSES</u></b>						
Membership	\$6,500.00	\$0.00	(\$400.00)	\$0.00	\$6,100.00	\$0.00
Newsletter	\$0.00	\$0.00	(\$5,000.00)	\$0.00	(\$5,000.00)	\$0.00
<b>Operating Budget</b>	<b>\$310.00</b>	<b>\$0.00</b>	<b>(\$2,350.00)</b>	<b>\$0.00</b>	<b>(\$2,040.00)</b>	<b>\$0.00</b>
Awards	\$0.00	\$0.00	(\$400.00)	\$0.00		
Committees	\$0.00	\$0.00	(\$500.00)	\$0.00		
Board Expenses	\$0.00	\$0.00	(\$200.00)	\$0.00		
Interest Income	\$10.00	\$0.00	\$0.00	\$0.00		
Website	\$0.00	\$0.00	(\$350.00)	\$0.00		
Donations	\$300.00	\$0.00	\$0.00	\$0.00		
Publications	\$0.00	\$0.00	(\$500.00)	\$0.00		
Operating Expenses	\$0.00	\$0.00	(\$100.00)	\$0.00		
At-Large Expenses	\$0.00	\$0.00	(\$300.00)	\$0.00		
<b>GOE TOTALS</b>	<b>\$6,810.00</b>	<b>\$0.00</b>	<b>(\$7,750.00)</b>	<b>\$0.00</b>	<b>(\$940.00)</b>	<b>\$0.00</b>
<b><u>SPECIAL PROJECTS</u></b>						
Small Grants Fund	\$0.00	\$0.00	(\$3,000.00)	\$0.00		
UM Herbarium Donation	\$0.00	\$0.00	(\$300.00)	\$0.00		
MT Audubon Donation	\$0.00	\$0.00	\$0.00	\$0.00		
Chapter Projects	\$0.00	\$0.00	(\$1,000.00)	\$0.00		
Merchandise Sales	\$50.00	\$0.00	\$0.00	\$0.00		
Annual Meeting 2014	\$1,500.00	\$0.00	\$0.00	\$0.00		
Plant Conservation Conference	\$1,500.00	\$0.00	(\$1,400.00)	\$0.00		
Flora of Montana	\$10,000.00	\$0.00	(\$12,000.00)	\$0.00		
<b>SPECIAL PROJECTS TOTALS</b>	<b>\$13,050.00</b>	<b>\$0.00</b>	<b>(\$17,700.00)</b>	<b>\$0.00</b>	<b>(\$4,650.00)</b>	<b>\$0.00</b>
<b>TOTALS</b>	<b>\$19,860.00</b>	<b>\$0.00</b>	<b>(\$25,450.00)</b>	<b>\$0.00</b>	<b>(\$5,590.00)</b>	<b>\$0.00</b>





# Montana Native Plant Society

2014 Annual Meeting

June 27-29, 2014

Luccock Park Camp in the Paradise Valley

Join us to celebrate Montana's native plants in an area south of Livingston that's been marked by glaciers and wildfire: *FIRE and ICE* is the meeting theme for 2014

## FRIDAY WORKSHOPS

Workshops on plant identification (Leader: Wayne Phillips), native pollinators (Leader: Casey Delphia) and grass identification (Facilitator: Patrick Plantenberg) will take place at Luccock. Bring a 10-power hand lens; extra fees apply.

## FRIDAY MIXER AND DINNER

The Valley of Flowers Chapter will furnish beverages and snacks for the mixer, which takes place at the picnic shelter in the Forest Service Pine Creek Campground. Then we'll stroll back to Luccock for a potluck dinner; please bring a dish to share. Abundant plasticware will be available, but bring your own mugs for hot or cold beverages. *Please note: alcohol is not permitted at Luccock Park Camp.*

## SATURDAY FIELD TRIPS

Field trip sign-up is available when you arrive at camp; all trips are offered on a first-come basis and are subject to change depending on conditions. Bring water, lunch, sturdy shoes, hiking poles if you use them, rain gear, sunscreen, insect repellent, and bear spray.

*Gallatin Petrified Forest, Tom Miner Basin (Mike Garvisher)*

*West Pine Creek meadows (Peter Lesica)*

*Post-fire succession in Paradise Valley (Norm and Cathy Weeden)*

*The Hogback off Trail Creek (Drake Barton)*

*Paradise Valley grasses (Matt Lavin)*

*Wetland habitats and plants (Peter Husby)*

*Medicinal plants in Paradise (Robyn Klein)*

*Mushroom ecology and taxonomy (Cathy Cripps; ½ day)*

*Bitterroot Ramble (Jan Nixon; ½ day)*

*Pine Creek Lake alpine hike (Gretchen Rupp)*

*Kids' activities - day-long (Organizer TBA)*

## SATURDAY EVENING SPEAKER

Roy Renkin, distinguished Forest Scientist from Yellowstone National Park, will discuss post-fire plant community succession in the Greater Yellowstone.

## SUNDAY FIELD TRIPS – ON THE WAY HOME

Native plantings at the Montana State University Horticulture Farm (Charrisa Bujak); Bitterroot Ramble (Jan Nixon); Self-Guided Road Trips: Paradise Valley Geology, Native Plant Gardens of Livingston and Bozeman.

## AGENDA

### Friday, June 27

- 1:00 - 5:00 Grass ID workshop
- 3:00 - 6:00 Registration and field trip sign up
- 3:00 – 5:00 Plant ID and native pollinator workshops
- 5:30 - 6:30 Mixer (FS campground)
- 6:30+ Potluck dinner (Luccock)
- 7:30 Board of Directors meeting

### Saturday, June 28

- 6:30 – 8:00 Breakfast
- 8:00 – 4:30 Field trips (pack a lunch)
- 4:00 – 5:30 Plant Identification Contest
- 5:30 – 7:00 Dinner
- 7:00 – 8:30 Guest speaker, general membership meeting
- 8:30+ Silent auction, raffle, field trip slide show

### Sunday, June 29

- 7:00 – 9:00 Breakfast
- 8:00 – 9:00 Committee meetings
- 9:00 – 11:00 Break camp, farewells, field trips depart

For more information, see [www.mtnativeplants.org](http://www.mtnativeplants.org) or contact Gretchen Rupp at (406) 586-8363 or [beesgrmt@gmail.com](mailto:beesgrmt@gmail.com)

## WHAT TO EXPECT – CAMPING AND FOOD

The annual meeting will be headquartered at Luccock Park Camp on Pine Creek, above the beautiful Paradise Valley, south of Livingston, Montana. Luccock Park offers a variety of sleeping and gathering areas, including cabins that sleep 6-20, and comfortable indoor and outdoor gathering places. Accommodation choices are tent or R.V. camping, or dormitory-style bunks in cabins (bring your own linens or bedroll). Campers will also share the bathhouse. Luccock will provide Saturday and Sunday breakfast and a buffet-style dinner Saturday evening. *We must receive your registration by June 15 to reserve your Saturday dinner.*

## GETTING TO LUCCOCK PARK CAMP

From I-90 exit 333 in Livingston, take Highway 89 south for ~3.5 miles. Turn left onto East River Road (MT 540) and travel 7.8 miles. Just past the hamlet of Pine Creek, turn left onto FR 202, signed for the Pine Creek Campground. Luccock is ~3.5 miles up, just before the National Forest boundary.

### Estimated mileage to Luccock Park Camp from:

Bozeman: 40  
Great Falls: 220  
Missoula: 240  
Sidney: 405

*Alcohol, tobacco and pets are not permitted at Luccock Park Camp*

You can also register and pay online at: [www.mtnativeplants.org](http://www.mtnativeplants.org). Registrations received by June 1 will be entered into a drawing for a registration refund. Saturday dinner cannot be reserved after June 15.

	Number	x Rate	= \$ Total
<b>Child registration</b> (ages 3-11; includes 2 breakfasts)			\$5
<b>Adult Registration</b> (ages 26+; includes 2 breakfasts)			\$35
<b>Child Saturday dinner. Not available after June 15th</b>			\$5
<b>Adult Saturday dinner with meat. Not available after June 15<sup>th</sup></b>			\$20
<b>Adult Saturday dinner - vegetarian. Not available after June 15<sup>th</sup></b>			\$20
<b>Cabin Bunks</b> (Use of bathhouse, 2 nights)			\$25
<b>Tent Sites</b> (Use of bathhouse, 2 nights)			\$25
<b>RV Sites</b> (5 available; no dump; use of bathhouse, 2 nights)			\$25
<b>OR: Student/young adult all-inclusive registration</b> (ages 12-25; includes 2 breakfasts, Saturday dinner, accommodations): indicate <u>  </u> meat or <u>  </u> vegetarian Saturday dinner; indicate <u>  </u> bunk or <u>  </u> tent site. <b>Not available after June 15</b>			\$30
<b>Friday grass identification workshop</b>			\$15
<b>Friday plant identification workshop</b>			\$5
<b>Friday native pollinator workshop</b>			\$5
<b>TOTAL PAYMENT</b>			\$

Name(s): \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

I (we) hereby indemnify and hold harmless the Montana Native Plant Society (MNPS) and its board of directors and members against claims of liability, damages, and injury that may arise out of my (our) participation in MNPS activities at Luccock Park Camp, the Pine Creek Campground and related field trips, June 27-29, 2014.

Signature(s): \_\_\_\_\_

Make your check payable to "MNPS" and send this part of the registration form and payment to: MNPS, c/o Bill Klenn, 713 S. Black #2, Bozeman, MT 59715