

# Kelseya

Newsletter of the Montana Native Plant Society



*Kelseya uniflora*  
ill. by Bonnie Heide

## It's Back!!! 33rd Annual Meeting June 24-26, 2022

The Annual Meeting, sponsored by the Flathead Chapter and Western Members-at-Large, is back. After a two-year hiatus due to the pandemic, we are excited to finally gather with our members from all around the state! Join us as we explore the ferns and forests of northwestern Montana. This year will be a beautiful and rustic setting, basing our adventures out of the Timberlane Campground group campsite along Pipe Creek in the Kootenai National Forest north of Libby, Montana. We have wonderful workshops, fabulous fieldtrips,



Logo by Dee Blank, Flathead Chapter

fantastic food, and captivating company in store. Whether you are an expert botanist or just learning the plants, this is sure to be a great opportunity to strengthen your botanical skills and knowledge of these ecosystems. A special welcome is extended to our many new members - we look forward to getting to know you and sharing our zeal for native plants. Space is limited, so register early!

See the registration form and insert in this *Kelseya*, and go to [mtnativeplants.org/annual-meetings/](https://mtnativeplants.org/annual-meetings/) for more details and updates.

### SNAPSHOT FROM THE PLANT CONSERVATION CONFERENCE :



## Climate Change Monitoring Above Treeline: Baby Steps in the Anaconda Range

By Jessie Salix, Calypso Chapter

The decision to install long-term climate change monitoring is challenging, when at the most, you'll get 30 years of trend data out of your career. Such a short timeframe, in the face of a slowly changing climate, begs to ask if it's worth it. The choice must be made with the intention and hope that your monitoring will get passed on to and followed by your predecessors.

One concept in designing vegetation-based climate change monitoring, is to target transition zones where changes in climate (precipitation, temperature) may result in shifts in plant species distribution between two ecotones. Peter Lesica shared this concept with me on a field trip bus back in 2014 and sparked the idea to establish some monitoring in the Goat Flat Research Natural Area.

Goat Flat is a spectacular botanical area, home to three Region 1 Forest Service sensitive plants; storm saxifrage (*Micranthes tempestiva*), alpine pussy-toes (*Antennaria densifolia*), and Weber's saw-wort (*Sausurea weberi*), and other delights such as white gentian (*Gentiana algida*), whiteworm lichen (*Thamnolia subuliformis*), and dwarf willows (*Salix* sp.) to name a few.

Goat Flat was designated a Research Natural Area in 2001 to preserve the alpine and subalpine plant communities, and the unique patterned ground which has been gridded into geometric shapes by the constant freezing and thawing process. What makes it an ideal climate change monitoring site is the semi-persistent snowfield which hangs above the "flat" and provides late season



# Chapter Events

## Calypso Chapter

Info: Catherine Cain at 406-498-6198; [nativeplants@montana.com](mailto:nativeplants@montana.com) or Karen Porter at 406-498-9728; [karenwporter44@gmail.com](mailto:karenwporter44@gmail.com).

On **Saturday, February 26th**, Calypso Chapter member Sara Maslen led a guided ski tour to “Ski and Botanize” across **Maverick Mountain Ski Area**, west of Dillon, MT. With good snow, a blue sky, and seven skiers in tow, the group explored alpine forest types and communities found on several aspects of the mountain. Discussions included growing conditions, forest health, effects of



climate change in the alpine, and broad-scale forest/fire management strategies. Sara reports that the interest was high, discussions extensive, and time too short to cover all

she intended. She anticipates repeating the event next year.

## Clark Fork Chapter

Info: Teagan Hayes at 920-979-9009; [teagan.hayes@gmail.com](mailto:teagan.hayes@gmail.com) or Paul Buck at 970-901-2418; [paul7703@gmail.com](mailto:paul7703@gmail.com).

**Thursday, April 14, 7:00 p.m.** Jenny Tollefson spent two months in Chile and Argentina in 2020. Come and see **A Window into the Patagonian Flora** where she will share photos and some things she learned about the plants she encountered along the way. Room L09 Gallagher Business Building, UM Campus. Masks are required in all University buildings.

**Thursday, May 12, 6:30 p.m.** Our **Spring Potluck** will be held at the Pineview Park Pavilion in the Upper Rattlesnake off of Rattlesnake Drive, just west of Rattlesnake School. Bring your own plate, utensils and a dish to share. No alcohol please. We'll be putting label sticks together for the annual native plant sale. Call Peter at 406-728-8740 or Clare at 406-728-0189 for directions.

## Archived Zoom Meetings

Archived MNPS programs, presented statewide or to a Chapter, can be found on the Valley of Flowers YouTube Channel. Click on the program name for a brief description and Enjoy! [https://www.youtube.com/channel/UCLcqE7ReAPo\\_8g5kvBhFEYw](https://www.youtube.com/channel/UCLcqE7ReAPo_8g5kvBhFEYw)

## Eastern At-Large

Contact Jennifer Lyman at 406-860-0223 or [jencylyman@gmail.com](mailto:jencylyman@gmail.com). For information on the following field trips, contact: Kelsey Molloy, [kelseym88@gmail.com](mailto:kelseym88@gmail.com), 406-654-4566.

**April 16, Matador Ranch, Phillips County.** Walk to see early spring prairie blooms like *Townsendia*, yellow bells, and prairie crocus.

**May 14 or 21, Bitter Creek Wilderness Study area, north of Hinsdale.** Take a hike and see spring blooms like smooth blue penstemon, gumbo evening primrose, *Thermopsis*, and prairie smoke. As a bonus grassland birds should be back!

## Flathead Chapter

Info: Tara Carolin at 406-607-7670; [mnps.flathead@gmail.com](mailto:mnps.flathead@gmail.com).

**Tuesday, April 12, 2022, 7:00 p.m. On Zoom.** Looking Back on 130 Years of Fern and Lycopphyte Research in Glacier National Park, Montana: A Modern Taxonomic Account, by Keegan Heron. Join via the Zoom link: <https://bit.ly/3KIAJW0>.

**Saturday, April 30th, 9:30 a.m. to 12:30 p.m.**

**Owen Sowerwine Natural Area.** Join Linda de Kort and Pat Jaquith for a walk through OSNA, along the Stillwater River in Kalispell, to help update the plant list. It is a great time of year to listen to bird calls in this habitat, too. For more information and to sign up, call Pat at 802-735-7866.

## May 2022 Dates TBD

**Glacier National Park Huckleberry Phenology Citizen Science.** The park is collecting data to understand how weather and other factors influence the phenology, or timing, of berry ripeness. Information sessions and training will be held at Imagine If Libraries during the month of May. Dates and locations TBD. Email [glac\\_citizen\\_science@nps.gov](mailto:glac_citizen_science@nps.gov) for a link to a training video, then just download the app. Email or call 406-888-7986 for more info.

**Thursday, May 5th, 6 to 7 p.m. Creating Birdsong in Our World, One Garden at A Time.** In this presentation by Kathy Ross, you'll learn why the relationship between native plants, insects, and birds is important to understanding the loss of habitats and biodiversity. This event is co-sponsored by the Flathead Audubon Society, Wayfarers Unit of Flathead State Park, and MT Native Plant Society. Limited to 20 participants. For meeting place and to register call 406-837-3041 Extension 0.

**Wednesday, May 18th, 5:30 p.m. Badrock Canyon Wildlife Management Area.** Evening stroll with Rachel Potter. In this flat, 3-4 mile walk, we will explore this newly protected area along the Flathead River in Columbia Falls. Limited to 15 participants. Email Rachel to register, questions or last-minute changes at [jreporter@centurytel.net](mailto:jreporter@centurytel.net).

**Saturday, May 21st, 9:30 a.m. to 1 p.m. Round Meadow Trail.** Join Pat Jaquith and Linda deKort for a trip through the USFS Round Meadow Trail system, 12 miles from Whitefish, MT. We may find three species of calypso orchids! Meet at trailhead parking lot. For more information and to sign up call Pat Jaquith 802-735-7866.



### **Tuesday, May 24, 6:00 p.m. Columbia Mountain**

**Wildflowers.** Join Tara Carolin of Montana Native Plant Society for an evening wildflower walk. We will travel through many habitat types – from moist forests to dry open slopes. Expect an easy pace. Walk will be limited to 15 participants. Please register by contacting Tara Carolin at [montara96@gmail.com](mailto:montara96@gmail.com), 406-607-7670.

### **Thursday, May 26th, 8 to 10 a.m., and Thursday, June 2nd, 6 to 8 p.m. Putting it all together, Naturalist walk at Wayfarers**

**State Park.** Join naturalists from Flathead Audubon and MT Native Plant Society for a short walk at the Wayfarers Unit of Flathead Lake State Park in Bigfork. You'll learn about the native plants and birds that thrive on this lovely east shore landscape where biodiversity abounds! Each walk is limited to 12 participants and will have two length options. For meeting place and to register call 406-287-3041 Extension 0.

### **Saturday, June 4th, 9:00 a.m. to 2 p.m. Mosses of Columbia**

**Mountain.** Join Dr. Joe Elliot, botanist & renowned moss expert of Montana, in the various habitats along the Columbia Mountain Trail. A list of mosses will be provided to participants and will include characteristic structural features helpful in identification and substrate affinities. Meet promptly at the Columbia Mtn. Trailhead. This walk will be limited to 15 participants. Please register by contacting William Schlegel, [wischlegel@gmail.com](mailto:wischlegel@gmail.com), 406-224-8430.

### **Wednesday, June 8th, 6:00 p.m. Whitefish Trail Wildflower**

**Walk.** Meander through the woods and learn about the wide array of colorful wildflowers that line the Whitefish Trail with Whitefish Legacy Partners and Montana Native Plant Society. Registration is required beginning in May at: <https://www.whitefishlegacy.org/events>.

## **Have you renewed your membership to MNPS?**

If not this will be your last issue of *Kelsey*. Please renew to continue receiving *Kelsey* and notices of upcoming events.

We appreciate your support!

## **Kelsey Chapter**

Info: Mark Majerus (president) or Jane Fournier (secretary) at [kelseychaptermnps@gmail.com](mailto:kelseychaptermnps@gmail.com).

This winter the Kelsey Chapter has presented several noteworthy programs via Zoom. They were recorded and links are available on the Chapter webpage: <https://www.mtnativeplants.org/chapters/kelsey/>. Recorded presentations include *Identification and Appreciation of Montana Native Grasses*, by Mark Majerus, *Native Trees & Shrubs for Use in the Helena Area*, by Carson Thomas, and *Plants & Poetry: May your Life be Like a Wildflower*, by Mike Marsh.

### **Saturday, April 2. Gold Country Master Gardener**

**Symposium, Carroll College.** MNPS President, Patrick Plantenberg, will be speaking on native plant initiatives at the symposium breakout sessions and the Kelsey Chapter is participating with an information booth.

### **Wednesday, April 13, 7:00 p.m. Germinating Native**

**Plants.** Join Kenda Herman for our last presentation of the winter season. Presentation and Zoom details will be sent by email.

We are in the process of planning our summer field trips and events. Anyone who is willing to lead an event, or if you have a great idea for a field trip, please let us know at: [kelseychaptermnps@gmail.com](mailto:kelseychaptermnps@gmail.com).

## **Maka Flora Chapter**

Info: Bob Srygley at 406-488-6086, [robert.srygley@usda.gov](mailto:robert.srygley@usda.gov).

## **Valley of Flowers Chapter**

Info: Contact Gretchen Rupp for program details or to be added to the Valley of Flowers Chapter "Friends" e-mail list, at 406-586-8363, [beesgrmt@gmail.com](mailto:beesgrmt@gmail.com).

### **Tuesday, April 12, 7:00 p.m. Introduction to the MSU**

**Herbarium.** MSU hosts an organized collection of over 85,000 plant specimens from throughout Montana and adjacent states, which date back to 1880 when R.S. Williams first began adding herbarium specimens from western Montana to what is now the MSU Herbarium. Who has collected the many herbarium specimens since R.S. Williams? Who uses them, and for what purposes? Are people still collecting plants? Join Herbarium Curator Matt Lavin and Gretchen Rupp for an introduction to the collection and techniques for study of these plants. Meet in Room 408 of Lewis Hall.

### **Saturday, April 23, Earth Day, 10:00 a.m. to 3:00 p.m. The**

Valley of Flowers Chapter is a sponsor for Gallatin Valley Earth Day events, and this year there will be a LOT going on throughout the month. On Earth Day, the Valley of Flowers Chapter will staff a table to distribute materials about landscaping with native or water-wise plants, and about MNPS. Spend an hour behind the table talking with passers-by, or just stop by to pick up information.

### **Saturday, April 30, 10:00 a.m. Spring Cleanup of the**

**Pollinator Garden in Langohr Park.** Our chapter has maintained this native-plant demonstration garden on the Gallagator Trail for many years; getting it up to snuff in the spring is a quick, enjoyable group project. Park on Mason Street just east of Willson Avenue; bring weeding and pruning tools.

## **Western At-Large**

Info: Kris Boyd at 406-295-9414, [boyd.kristina@yahoo.com](mailto:boyd.kristina@yahoo.com).

## **Election Time is Here - Please Vote!**

The Board of MNPS asks you to choose our statewide Board positions. This year, we're voting for Vice President, Secretary and Eastern Director-At-Large. Please read the candidate profiles and fill out the enclosed ballot, or vote online at <https://www.mtnativeplants.org/election> by June 15. We'll announce the result at the Annual Meeting.



# Conservation Corner

## 2022 MNPS CITIZEN BOTANY PROGRAM

By Elizabeth Bergstrom, Conservation Committee Co-chair



**T**he Montana Native Plant Society Board of Directors approved the Pilot Study for Citizen Botany. The Pilot Study is in Coordination with the Montana Natural Heritage Program and will extend over two years. MNPS committed \$5000 towards this effort to develop materials, plant lists and coordination costs for Heritage Botany Assistant, Kenda Herman, to work with our chapters in implementing the program. State Heritage Botanist, Andrea Pipp, will closely work with Kenda as well. The Pilot Study is structured in a similar way as the presentation given by Andrea in February. That online program is available on our website <https://www.mtnativeplants.org/mnps-presents-online-programs/>.

Kenda will serve as the Pilot Study Coordinator. She will organize a spreadsheet of at least 50 rare plant occurrences spread across the areas of Montana represented by our MNPS chapters. The plant occurrences to revisit will initially be screened by land management agencies who not only provide guidance on the species and occurrence sites important to them, but also provide an initial clearance that these locations can be safely accessed. The spreadsheet will include:

- Target Vascular Plant Name: Species and Family
- Geographical area of MT where the species is found
- County where the occurrence is found
- Phenology months when identifiable
- Central latitude/longitude and size of occurrence
- Ease of identification rating
- Ease of relocating site rating (will be explored but may not be possible)
- Priority rating as to importance for land managers or MTNHP



Photo by Scott Mincemoyer, MTNHP

*Astragalus barrii*

Each of our MNPS Chapters will select a member as their Chapter Citizen Botany Coordinator. The individual selected should have a working knowledge of our native flora and be capable of developing a familiarity with rare plants listed on the spreadsheet for their Chapter's Region. The Chapter Coordinator, with Chapter members, will select two rare plant occurrences to revisit over the Pilot Study. Kenda will then provide all observation data associated with the occurrence, precise mapping, if available, and maps of the occurrence with a topographic and aerial photo background at two to three scales. Kenda will also provide links to information about the plant, safety measures to follow and

ensure that the site can be accessed safely.

At least one chapter member that can become familiar with the identification of the selected target plant would coordinate with other Citizen Botany participants. Examples of developing chapter member identification skills for a target species can be gained through different approaches such as herbarium night, presentations on identifying specific genera, or a species expert led field trip to a plant



Kenda Herman and Andrea Pipp of MTNHP

occurrence. At the end of the field season each Chapter Citizen Botany Coordinator will collect data submissions and provide an accomplishment report to Kenda. The goal is for each chapter to complete two site revisits over the two years of the Pilot Study.

At our Annual Meeting, June 24 – 26, Andrea will conduct a workshop on Survey 123 and demonstrate the process for collecting data and mapping plants. Andrea and Kenda will assist with other training and coordination opportunities as well throughout the field season. For at least the first year, Citizen Botany rare plant revisits will not be advertised in our MNPS Field Trip Guide. Each chapter should compile a list of Citizen Botanists and network with respect to timing of site revisits.

Please consider participating and contributing to a successful MNPS Citizen Botany Program.

## 2022 MNPS Small Grants

### A Diverse Suite of Winners

By Betty Kuropat and Anne Garde, Small Grants Committee

**T**his year, the Small Grants Committee and the MNPS Board of Directors are pleased to award three small grants.

#### GALLATIN INVASIVE SPECIES EDUCATION TRAILER

The Gallatin Invasive Species Alliance (GISA) has assembled an impressive number of partners for this ambitious project. They are building an education trailer which on the outside will be "a nomadic billboard", sporting educational designs and messages about weeds and natives. Inside it will be full of informative, inspiring, and interactive material about invasive plants, native plants, and the value

of ecosystem services that natives provide. The trailer will serve as a booth and traveling classroom at events throughout Gallatin and Madison counties and beyond. The trailer is expected to engage and educate thousands of people every year for twenty years or more. GISA will have information about their "Grow Wild" program that advocates using natives in landscapes. It will also be at events at the GISA's own Crail Gardens, a native demonstration garden established in 2019.

### **RESTORING INTACT, NATIVE PLANT COMMUNITIES POST-HERBICIDE TREATMENT IN THE CENTENNIAL VALLEY**

Centennial Valley Association and their many partners have been implementing weed management projects in the Centennial Valley since 2006. They managed noxious weeds following an Early Detection, Rapid Response model to maintain a low level of early invader species and prevent establishment of new invaders. The project site for this grant is twenty-five acres in the Long Creek drainage that provides habitat for many wildlife species and is a migration corridor between the Centennial and Ruby Valleys. Herbicide spot treatments have been used here since 2015 to decrease the abundance of noxious weeds. Herbicide treatments effectively reduce noxious weed infestations but can leave areas of bare ground that are vulnerable to disturbance and future invasion. Funds from this small grant will be used to reseed native grasses and forbs to promote healthy ecosystem function, including competition with weeds.

Centennial Valley Association received a similar small grant from MNPS in 2020. Read about it in *Kelsey* Vol. 34 No. 3, Spring 2021.

### **THE FUTURE OF MONTANA'S FORESTS: RESISTANCE OF NATIVE HIGH-ELEVATION CONIFERS TO CLIMATE CHANGE-TYPE STRESSORS**

A primary conservation strategy for mitigating climate change related threats to whitebark and limber pines

is outplanting seedlings into sites with high mortality. The success of that strategy depends on the seedlings' level of resistance to climate change-type stressors such as heat and drought. Sean Hoy-Skubik, a MS student at Montana State University plans to experimentally impose heat, drought, high light, and cold stress on whitebark and limber pine seedlings from different climates. He will quantify and compare various physiological responses to identify traits associated with high degrees of resilience. The small grant will support needle tissue analysis of stable carbon isotope ratios that will identify varying water use efficiency between seedling populations. This research will serve to further the understanding of future responses of these trees to climate change induced stress, as well as the viability of outplanting as a conservation strategy.

MNPS is pleased to support these projects. Congratulations to Gallatin Invasive Species Alliance, Centennial Valley Association, and Sean Hoy-Skubik!

## **SMALL GRANT REPORT:** **Tongue River Reservoir State Park**

*By Emily Marlow*

**T**ongue River Reservoir is a state park located in Southeastern Montana, about 10 miles from the Wyoming border. The closest town is Sheridan, Wyoming and most of the visitors to the park come up from Sheridan to camp and fish at the park, which has over 160 campsites. It is my job as the AmeriCorps member at the park to plan educational and interpretive programs, and I applied for the grant through the MNPS to improve these programs and ensure that our visitors had the necessary supplies to properly learn about native plants.

The goal of these programs was to educate visitors to the park about the importance of native plants and pollinators and demonstrate ways that they can support these populations in their own neighborhoods. I originally planned for these to be two separate programs, one focused on plants and one on pollinators, and each of these programs would be held twice during our summer season as part of our Saturday night Fireside Chats. This plan, however, didn't exactly pan out as we struggled to get campers out to the Saturday night programs. After seeing these issues with attendance, I decided to scrap the Saturday night programs and instead shifted focus to working with the Girl Scouts of Sheridan, Wyoming, who took part in the native pollinators program once and the native plants program twice.

Our first program with the Girl Scouts was in August when they came out to Tongue River Reservoir for both the native plants and native pollinators programs. Eight kids and six adults were able to make it out to the Reservoir to learn about native plants and native pollinators with us. In the morning, we discussed the process of pollination and the difference between specialist and generalist pollinators. For this specific program, we focused on native bee populations, which are typically solitary. With the grant from the MNPS, we were able to provide supplies for the Girl Scouts to make their very own bee houses, which they can place in their yards to provide habitats for native, solitary bees. After finishing this activity, the girls took a break and reconvened in the afternoon to learn about native plants. For this program, we talked about the importance of cultivating native species and the ways that native plants can improve the health of their ecosystem. For our activity, we were able to get our hands dirty making seed balls, which are balls made up of clay, soil, and native seeds that can be used to revegetate damaged areas. For our seeds, we used the Pollinator Mix from the company Native Ideals which includes: hairy evening primrose, Rocky Mountain beeplant, western yarrow, scarlet gilia, Holboell's rockcress, and little flower penstemon.





## Tongue River *(Continued from page 5)*

We did not use any fertilizer in the seed balls. The girls had a blast making their seed balls and were so excited to take them home to begin cultivating native plants in their own yards. We were also able to give each of the girls a fabric planter and a bag of native seeds so that they could start their own native plant container gardens.

For our second Girl Scout program, I went out to the Thorne Rider Youth Camp at the base of the Bighorn Mountains in Story, Wyoming. The girls had enjoyed making the seed balls so much that their chaperone asked me to come out to the camp to once again do my native plants program and help the girls make seed balls. There were seven girls and six adults at the camp. Only two of the girls had attended the previous programs at the park. We again talked about the importance of cultivating native species and the ways that they can help to improve their ecosystems. After we talked for a short period of time, we went straight to our activity. The girls made their seed balls and while they were able to take some of them home, most of the seed balls stayed at the camp and were used to revegetate an area where the staff had to cut down several trees. We did not make any plans to track the progress of this project (since my AmeriCorps term is coming to a close) but I hope that our efforts help the camp with their revegetation mission.

These programs were not what I initially had planned but they ended up going very well! I feel like I made good connections with the girls and like to think I was able to inspire them to start thinking about what they can do to protect and cultivate native plant and pollinator populations. With the supplies that were left over from these programs, I was able to make an education trunk that can be used by the next AmeriCorps volunteer(s) to educate even more people about these important concepts.

Want to help conserve native plants? You may donate [HERE](#). (scroll to the bottom of the page)

# SPRING CAN BE TOUGH... FOR TREES

*By Peter Lesica, Clarkfork Chapter*

Spring is the time when a young man's thoughts turn to love. Well maybe. But it is definitely the time when the buds of trees open and leaves and flowers make their appearance. In northern and temperate climates, trees must coordinate spring budburst with weather in order to maximize growth without losing their sensitive organs such as leaves, young stems and flowers to freezing temperatures. In Montana, spring is often speckled with unseasonably warm or cold periods. Some of these can be extreme. Coniferous trees (with the exception of larch) can handle these extreme events better than deciduous species because they keep most of their leaves through the winter, but deciduous trees have a harder time. These trees don't tune in to forecasts from NOAA or the Weather Channel, so how do they figure out when to come out of hibernation without getting slammed? Furthermore, different species of trees spring to life at different times in the spring. How does that happen?

Three environmental factors are important for regulating spring budburst; these are (1) degree of winter chilling, (2) photoperiod (day length), and (3) spring warming. In the spring, after the chilling requirement is fulfilled, trees become receptive to warming temperatures and/or photoperiod depending on the tree species.

Plants first enter a state of rest once buds are fully hardened at the end of the previous growing season and will remain in a state of rest unless they experience an accumulation of near-freezing temperatures, often quantified as cumulative chilling degree days. Once sufficient chilling has accumulated and the bud reaches a state of rest completion, plants transition to a state of quiescence, where growth within the buds becomes dependent on air temperature and sometimes photoperiod.

As temperatures warm in early spring, a certain accumulation of heat is needed to bring the buds gradually out of quiescent dormancy and begin to produce tiny new leaves and flowers. These new leaves and buds are sensitive to cold, and can be damaged by cold snaps that are so common in April and May here in Montana. You might think that a warm spell would propel budburst and then a cold snap would hammer the new leaves and flowers. However, in some, but not all species, the response to spring warming is tempered by the additional sensitivity to day length. If the days are still relatively short, the buds don't pay much attention to the temperature. The degree to which budburst depends on these two stimulants varies among species. However, for trees that do rely on two independent variables, there is less chance of being fooled into a too-early budburst. Is that smart or what?

For most species, additional winter chilling, warmer spring temperatures and/or longer day length cause advances in budburst. A study by Rongzhou Man and collaborators found that balsam poplar and quaking aspen, as well as lodgepole pine, required about twice as much winter chilling but only about half as much spring warming as spruce to initiate budburst despite all these trees growing together in northern Ontario. At the community level, species tend to have a unique suite of cues, leading to a generally staggered budburst.

One of the big concerns that conservationists and foresters have is the potential effect of global warming on the timing of critical physiological events in temperate and boreal



*Populus trichocarpa, photo by Peter Lesica*

*(Continued on page 7)*

trees. For example, if the climate becomes warmer, insufficient chilling during the late fall and winter could delay budburst. If spring comes earlier, but trees leaf out later, they could miss the cool, moist weather best for growth.

Although climate change is happening rapidly, and the generation time for trees can be decades, it is possible that they will be able to adapt. A study on balsam poplar across Canada and Alaska found that abundant genetic variation exists for budburst responses to changes in the length of the growing season. Similar results are reported for a few other tree species. Another possibility is that southern populations will decline, but northern populations will increase, and a “northern migration” will occur. Another possibility is that if trees are able to take advantage of a longer growing season, there will be an increase in carbon sequestration, helping to mitigate the effects of climate change. Right now the jury is still out on what is most likely to happen. Stay tuned.

### Further reading

*Mann, R., P. Lu and Q. Dang. 2017. Insufficient chilling effects vary among boreal tree species and chilling duration. Frontiers in Plant Science 8: 1364.*

*Vitra, A. A. Lenz and Y. Vitasse. 2017. Frost hardening and dehardening potential in temperate trees from winter to budburst. New Phytologist 216: 113–123.*

*Korner, C. and D. Basler. 2010. Phenology under global warming. Science 327: 1461–1462.*

## Climate Change Monitoring

(continued from page 1)

moisture for a host of adjacent alpine plants. The distinct assemblages of plants on this bench are dependent on the slowly receding snowfield, with “spring water loving” species freed from the veil of snow earlier in the season than those “late water loving” species who emerge from under the receding snow in late summer.

In 2016, two climate change monitoring transects were installed perpendicular to the face of the snowfield, transitioning from the “spring water lovers” - furthest

from the snowfield to the “late water lovers” – closest to the snowfield. The goal was to establish a baseline of vegetation composition along the transect gradient to detect vegetation change over time in a warming climate with a shorter duration snowbank (reduced soil moisture).



Botanists at Goat Flat Study Area

Storm saxifrage is sporadically present along the first half of Transect #2. Species specific monitoring of storm saxifrage was established on the bench in 2012 to assess population trend.

In addition to vegetation composition, the size of the snowbank is also measured at each reading, as well as a point observation for pikas at a scree field on the hike up. Currently the monitoring has been on a 3-year rotation: 2016, 2019, and planned for 2022. A trip to Goat Flat in 2021 found the snowfield completely melted by July 22nd. In 2022, we intend to add some baseline bee surveys to the monitoring protocol.

Now, with two readings of data recorded, and only six more readings left in my career, I hope that just as I have picked up the monitoring plots of John Joy (BDNF Ecologist in the 80's and 90's), and Steve Shelly (MTNHP Botanist in the 80's and 90's), that the future Forest Botanists will be interested and able to continue this study. I hope the data will provide insight on the degree of change, the pace of change, and the effects of a changing climate on alpine plant communities, including rare species such as storm saxifrage, who in time may find the drying bench uninhabitable. Only continued monitoring will tell.

## WELCOME NEW MEMBERS!

*The Montana Native Plant Society would like to welcome and thank new members from the following chapters:*

### Calypso Chapter

Martha Apple, Rebekah Rongo

### Clark Fork Chapter

Michele Disney, Estee Fleming, Mark Kreider, Kathryn Kress, Arizona Martin, Jennifer Mcnew & Josh Smith, Jeanne Montplaisir, Cayden Nystul, Becky Peters, Suzanne Shaner, Dani Yashinovitz

### Flathead Chapter

Confederate Salish & Kootenai Tribes, Karin Connley, Chris Dodge, Leslie Lowe, Mason Mara-Randazzo, Katherine McCahan- Yaak Valley Forest Council, Joe Rizzi, Salish Plant Society, Carole Shasha, Anne Wheeler, Virginia Zielinski

### Kelsey Chapter

Peter Christensen, Les Clark, Dave Hagen, Gwendolyn Knight, Brad & Susan Robinson, Blake Sexton, Mo Theisen

### Valley of Flowers Chapter

Ruth Angeletti & Doug Rand, Maya Bronston, Linda and Amy Clark, Karen Kitchen, Harry Lee, Kelsi Turner Tjernagel, Jacob Zimmerer & Avery Berg

### Eastern Montana at Large

Adela Awner, Mary Byron, Gayle Lam, Heather Nenninger, Margaret Webster



White Gentian from Goat Flat Study Area





## Gardening & Landscaping Helena Native Plant Garden Brought Back to Life

Since its beginnings about seven years ago, the Sixth Ward Garden Park in Helena has included among its varied specialty-themed gardens a Montana native plant area. Like some of the other areas within the park, the native plant area had been gradually overcome by quackgrass, Kentucky bluegrass, cicer milkvetch, and sweetgrass. When Mark Majerus of the Kelsey chapter of MNPS was asked for help earlier this year, he determined that only five species of the original planting could be salvaged, and all the invading species must be physically dug up and removed. Mark, with the support of the chapter, spent many hours cleaning up the site and monitoring it for re-emerging invasives throughout the summer. By September it was ready for replanting.

Using plants purchased by the Helena Parks and Recreation Department from Great Bear Nursery in Hamilton, plants supplied by the Bridger Plant Materials Center, and several species salvaged from the wild (about half of which came from future commercial and residential building sites), the site was replanted in time for the plants to adjust to their new setting before winter. The native plant garden now exhibits 12 shrubs and sub-shrubs, 13 grasses, and 24 wildflowers. The shrubs have been distributed as single plants while the grasses and wildflowers

are in clusters of three to five plants per species and the plants will be identified with permanent signs purchased by the Ward 6 Community Garden Park Advisory Council.

The Kelsey Chapter is looking forward to taking up the project again this season with a maintenance plan supported by members

to ensure the longevity of the project. We will be part of a coalition of diverse stakeholders including Helena Parks and Recreation, Helena Food Share, Helena Community Gardens, Lewis and Clark Public Health, MSU Extension, Margaret Stuart Youth Homes, and community volunteers ensuring that the gardens remain a valuable community asset. Already several natural history organizations and nearby schools have expressed their intention of using the native plant area as an educational resource for their programs.

During the 2022 growing season the Kelsey Chapter will take on the task of revitalizing the 'Medicinal Meadow' section of the Ward 6 Community Garden. Presently

the site is over-run with perennial weeds, with only a few of the original plants salvageable. This area is located adjacent to the Native Plant Garden (to the right in the photograph) and is twice the size.

- Jane Fournier, Kelsey Chapter



*The newly replanted Montana native plant area of the Sixth Ward Garden Park in Helena. Photo by Mark Majerus*

## Landscaping and Reclamation Committee Activities

As water becomes more of a limited commodity, it is imperative that urban and suburban residents develop better water conservation habits. The MNPS Landscaping and Reclamation Committee has recently posted a paper entitled "Water-Wise Grasses: Alternatives to Kentucky Bluegrass Turf" on the MNPS website <https://www.mtnativeplants.org/native-plant-landscaping/>.

This paper summarizes the results of two Montana studies (a Montana State University Master's water-wise turf research project and a Bridger Plant Materials Center dry-land sod demonstration project). These are the most recent and pertinent studies evaluating native and introduced drought tolerant grasses for potential turf or sod applications. - Mark Majerus, Kelsey Chapter

## Germination of Wildland Collected Seed

Both amateur and professional botanists are continually challenged with the germination of wildland collected native seed. Very few species can be direct seeded indoors or spring seeded outdoors without some scarification or stratification. A spreadsheet has been developed exhibiting the most used scarification and stratification techniques for Montana native shrubs/trees (46) and wildflowers (140). Information was gleaned primarily from Sheila

Morrison's *The Magic of Montana Native Plants*, Native Plant Network's Propagation Protocol Database and Young & Young's *Seeds of Woody Plants in North America*. This spreadsheet has been posted on the Landscaping page of the MNPS website <https://www.mtnativeplants.org/native-plant-landscaping/>.

- Mark Majerus, Kelsey Chapter



## Patagonia Seed Swap and New MNPS Partnership

On Saturday, January 29th, Calypso Chapter was Patagonia Outlet's designated partner for the **National Seed Swap Day** event held at the Patagonia Outlet store in Dillon, MT. Catherine Cain represented the Chapter with an informational board highlighting Chapter Field Trips for 2022, MNPS newsletters and membership applications. She gave away over thirty seed packages from seed she and Rich Proddgers had collected, along with directions on planting/sowing the various seeds. Because the event was sponsored by Patagonia, Catherine also had an emphasis

on the use of milkweed floss as an insulating material for cold weather wear. The event was well attended, and several folks brought native seeds to share with other attendees. Significantly, Catherine notes that **Patagonia now recognizes MNPS as a Partner**, which means we will be invited to participate in future events, and **we can apply for financial grants from Patagonia Corporation**. So, if you have a great project that requires high-dollar funding not available from MNPS, Patagonia Corporation is now an option!

## President's Platform

**W**hat a great year for MNPS! COVID-19 seems to be waning. Our new membership fees haven't affected our membership; We now have over 900+ members! And donations from you members are robust. Thank you all! What a great group of people! Let us know what you want from your Society.

What else is happening?

Field Trips – Imagine that! MNPS members are ready to get together again. In person meetings and field trips are being planned. Please consider leading a trip in your area. Contact your local Chapter and set one up. Our Annual Field Trip Guide will be coming out in May. The deadline for submission of your field trips is April 10.

The MNPS Annual Meeting, hosted by the Flathead Chapter and the Western-at-Large members, is scheduled for the Libby area June 24-26 with lots of field trips and a talk by Jack Nisbit. Please plan on attending. See the registration form in this edition of the *Kelseya*.

Helping Native Plants – The Helena-Lewis and Clark National Forest and Custer-Gallatin National Forest Land Management Plans have been released. The Conservation Committee and Valley of Flowers Chapter submitted comments on those plans years ago. It is good to see that native plant issues have been addressed in those plans. The Conservation Committee has organized the free 11th Plant Conservation Conference on March 30-31 via Zoom. The conference always attracts great speakers. The theme this year is Monitoring for the Effects of Climate Change. Plan to meet with the committee members at the Annual Meeting on Sunday June 26th to see how you can help our native plant communities.

Educating our members – Beth Madden has continued her excellent work organizing MNPS Zoom events over the winter. Essentially, the MNPS Board received a mandate from the members to help fund a pilot Citizens Botany Program after a presentation by Andrea Pipp. In addition, MNPS donated a membership to Rose Bear Don't Walk for her Salish Plant Society

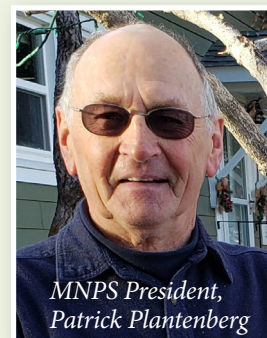
after Rose's excellent presentation. Don't miss the final program on Native Plant Landscaping April 27th. Please let us know what type of programs and speakers you would like us to organize for next fall and winter. Beth would also like a co-chair to help her over the fall and winter of 2022-2023.

The Small Grants Committee also continues their great work reviewing and awarding grants to aid native plant education and research. Thanks to Betty Kuropat for her continued leadership. In 2022, MNPS plans to review results of grants awarded in the past to establish and maintain native gardens around the state. Plan on meeting with the committee on Sunday June 26 in Libby at the Annual Meeting.

Landscaping with Natives – The Landscaping and Revegetation Committee is active once again! Thanks to Catherine Cain for helping prepare a new Montana Native Plant Source Guide. In addition, Mark Majerus has completed two documents, "Water-Wise Grasses: Alternatives to Kentucky Bluegrass Turf," and "The Most Common Stratification and Scarification Methods for Germination of Montana Wildland Collected Seed". Check them all out on the MNPS website.

On April 2, I will be presenting a paper on The Native Plant Now Initiative at the 2022 Gold Country Master Gardener's Conference at Carroll College in Helena. MNPS will have a booth and will be giving away a free MNPS membership at the conference. I will be highlighted Doug Tallamy's work on identifying native keystone species to help preserve biodiversity. The committee will then be forwarding those native keystone species to growers to encourage them to propagate those important native species for sale at Montana nurseries. Please plan on meeting with the committee on June 26 in Libby at the Annual Meeting. Stay tuned for more!

Looking forward to meeting and working with all of you in person this year. Please call me anytime with questions or concerns: 406-431-4615.



*MNPS President,  
Patrick Plantenberg*



# Clark Fork Chapter Funds Ethnobotany Brochure

by Christine Morris,  
Montana Natural History Center

The Montana Natural History Center collaborated with Salish tribal members to create an ethnobotanical brochure of native plants in MNHC's Nature Adventure Garden. This was made possible thanks to the generous support of the Clark Fork Chapter of the Montana Native Plant Society.

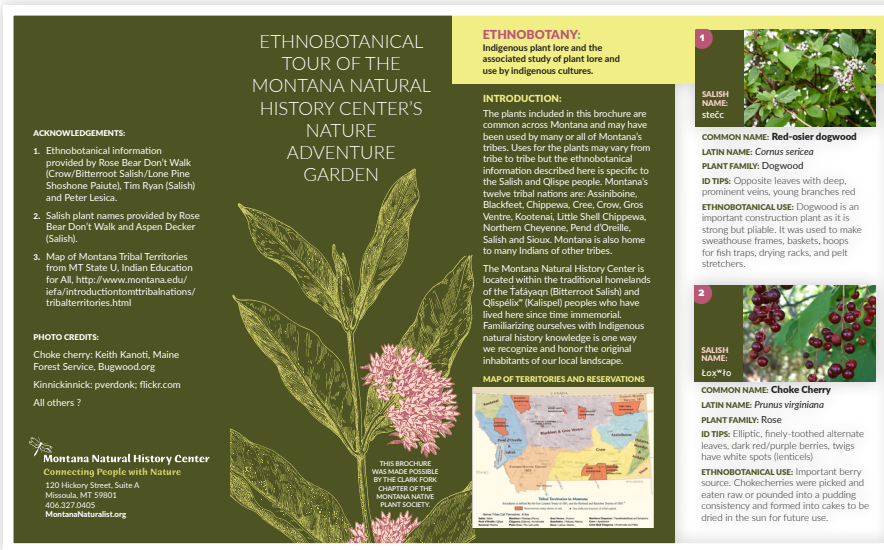
Free to the public and available this spring, the illustrated brochure will be used for self-guided tours and MNHC's educational programming. Rose Bear Don't Walk, Salish ethnobotanist, provided plant use information and content guidance. Aspen

Decker, Salish language speaker, provided plant name translations. The brochure includes Latin and common names and key points for identification.

Learning the Salish names and indigenous uses for native plants honors

the traditional inhabitants of this area. It also places the plants in the context of daily activities. For example, snlqwó, *Asclepias speciosa*, milkweed, was used to make ropes and thread. Its cottony seeds filled soft baby diapers. Knowing the cultural uses

of milkweed, which speak to both strength and tenderness, forges a greater emotional connection to the plant. Details relevant to the human experience are well remembered, and recognition of native plants is an important first step in their protection.



## A HEARTFELT THANK YOU TO THE FOLLOWING PEOPLE WHO GENEROUSLY DONATED TO MNPS IN 2021:

Peter L. Achuff  
Lowell C. Anderson  
Charles Bickenheuser  
Barbara Boorman  
Louis Bruno  
Hailey Moore,  
Center for Native Plants  
Natasha Chadwell  
Joyce Connors  
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**AND 36 Anonymous Donors**



# MONTANA NATIVE PLANT SOCIETY MEMBERSHIP

Name (please print) \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

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Phone \_\_\_\_\_





**JOIN, RENEW, OR DONATE  
ONLINE AT:**

**[www.mtnativeplants.org](http://www.mtnativeplants.org)**

Please notify us promptly of address changes (physical or email) at [mtnativeplantmembership@gmail.com](mailto:mtnativeplantmembership@gmail.com)

<input checked="" type="checkbox"/>	Membership Type	Dues
<input type="checkbox"/>	Individual	\$30
<input type="checkbox"/>	Family	\$50
<input type="checkbox"/>	Business/Organization	\$75
<input type="checkbox"/>	Living Lightly/Student	\$20
<input type="checkbox"/>	Lifetime (one-time payment)	\$1,000
<input type="checkbox"/>	Paper Kelseya Fee	
<input type="checkbox"/>	Add \$10 if you wish to receive a paper copy of our quarterly newsletter Kelseya, otherwise an e-version of Kelseya will be delivered via email	\$10

An **additional donation** to MNPS helps support conservation action, educational programs, and botanical research. Donors will receive acknowledgement of their contribution in the spring issue of *Kelseya*\*. You can select from the following giving categories:

	<input type="checkbox"/> Kelseya — \$50	
	<input type="checkbox"/> Bitterroot — \$100	
	<input type="checkbox"/> Lupine — \$250	
	<input type="checkbox"/> Ponderosa Pine — \$1000	
	<input type="checkbox"/> Other — \$ _____	

- ☐ \*Check if you wish your donation to be anonymous  
☐ Check if you wish to be contacted for volunteer opportunities

Membership in MNPS is on an annual basis, March 1<sup>st</sup> to February 28<sup>th</sup>. Memberships processed before November 1<sup>st</sup> will expire the following February 28<sup>th</sup>. Memberships processed after October 31<sup>st</sup> will expire February 28<sup>th</sup> of the year after.

## MNPS Chapters and the Areas They Serve

Members are welcome to affiliate with any chapter. Please select ☒ your chapter affiliation.

- ☐ **Calypso** (Beaverhead, Madison, Deer Lodge, & Silver Bow Counties, and Southwestern MT)
- ☐ **Clark Fork** (Lake, Mineral, Missoula, Powell, & Ravalli Counties)
- ☐ **Flathead** (Flathead & Lake Counties, and Glacier Nat. Park)
- ☐ **Kelsey** (Lewis & Clark, Jefferson, & Broadwater Counties)
- ☐ **Maka Flora** (Richland, Roosevelt, McCone, Sheridan, & Daniels Counties)
- ☐ **Valley of Flowers** (Gallatin, Park, & Sweet Grass Counties, and Yellowstone Nat. Park)
- ☐ **Eastern-at-Large**
- ☐ **Western-at-Large**

**Total Enclosed \$** \_\_\_\_\_

Make checks payable to: **Montana Native Plant Society**

Please mail this form with your check to:

**MNPS  
PO Box 8783  
Missoula, MT 59807-8783**

**Welcome to the  
Montana Native Plant Society!**

Memberships are processed on a quarterly basis so you may experience a slight delay in membership recognition and benefits. We appreciate your patience with our all-volunteer organization.



# MONTANA NATIVE PLANT SOCIETY

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Missoula, MT 59807-8783

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## 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 reviews, 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 emailed to [scottguse@yahoo.com](mailto:scottguse@yahoo.com) and [jenhintzguse@gmail.com](mailto:jenhintzguse@gmail.com), or mailed to: Scott and Jennifer Guse, *Kelsey* Editors, 725 Twin Lakes Road, Whitefish, MT 59937.

### Summer issue deadline is June 10

Please send web items to our webmaster at:

**Bob Person at:** [thepersons@mcn.net](mailto:thepersons@mcn.net)

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.

If you would like extra copies of *Kelsey* for friends or family, contact the Newsletter co-editors at: [scottguse@yahoo.com](mailto:scottguse@yahoo.com) or [jenhintzguse@gmail.com](mailto:jenhintzguse@gmail.com). No part of this publication may be reprinted without the consent of MNPS. Reprint requests should be directed to the newsletter co-editors.

Changes of address and inquiries about membership should be sent to MNPS Membership, P.O. Box 8783, Missoula, MT 59807-8783.

Please visit our website at: <https://www.mtnativeplants.org/>

## MNPS BOARD OF DIRECTORS

<b>President</b>	Patrick Plantenberg	Townsend	431-4615
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<b>Secretary</b>	Rachel Potter	Columbia Falls	250-4300
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### Directors At-Large

Eastern Montana	Jennifer Lyman	Red Lodge	860-0223
Western Montana	Kris Boyd	Troy	295-9414

### Chapter Representatives

Calypso Chapter	Catherine Cain	Glen	498-6198
	Karen Porter	Butte	498-9728
Clark Fork Chapter	Teagan Hayes	Missoula	979-9009
Flathead Chapter	Tara Carolin	Kalispell	607-7670
Kelsey Chapter	Mark Majerus	Helena	443-4678
Maka Flora Chapter	Bob Srygley	Sidney	488-6086
Valley of Flowers Chapter	Gretchen Rupp	Bozeman	586-8363

### Standing Committees

Conservation	Peter Lesica	Missoula	728-8740
	Elizabeth Bergstrom	Ennis	581-6571
Landscaping/Reveg	Patrick Plantenberg	Townsend	431-4615
Membership	Maria Mantas	Bigfork	407-2045
	Sasha Victor	Missoula	546-2178
Small Grants	Betty Kuropat	Troy	295-7143

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



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# OFFICIAL 2022 MNPS ELECTION BALLOT

Please vote for the candidate of your choice, or a write-in candidate, including yourself. Fill out and mail to the address on the ballot. Or go to the election page online: [www.mtnativeplants.org/elections](http://www.mtnativeplants.org/elections). Terms are two years. Results will be announced at the Annual Membership Meeting on June 25, 2022 at Timberland Camp north of Libby, Montana.

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## CANDIDATE FOR VICE PRESIDENT

- ☐ **ROBERT PAL** - Dr. Pal is an Associate Professor and the Director of Restoration at Montana Tech. He holds a master's in agriculture and a Ph.D. in Biology/Plant Ecology. His main research focus is the flora and vegetation of disturbed habitats, in both agricultural and urban areas, with a focus on ecological restoration and plant invasions. He has earned prestigious research grants such as the Fulbright Research Grant and the Marie Curie Research Fellowship. He has served as MNPS Vice President since 2020.



- ☐ \_\_\_\_\_ Write-in candidate
- 

## CANDIDATE FOR SECRETARY

- ☐ **CAMIE WESTFALL** - CAMIELLE WESTFALL lives in Helena and has worked as a wetland ecologist, rangeland ecologist, GIS specialist, environmental consultant and data specialist. She has been involved with several national EPA and BLM natural resource monitoring efforts, as well as a diverse array of Montana-based projects such as developing noxious weed indices and risk assessment for exotic species, impacts on wetlands, investigating the impacts of fire in wetlands in Montana and Patagonia, conservation easement projects, whitebark pine stand monitoring and lake and river surveys of aquatic invasive plants. She enjoys exploring nature and getting more involved with local conservation and education groups.



- ☐ \_\_\_\_\_ Write-in candidate
- 

## CANDIDATE FOR EASTERN DIRECTOR-AT-LARGE

- ☐ **KELSEY MOLLOY** - Kelsey is a Rhode Island native who moved to Montana 8 years ago. She first became acquainted with prairie plants while studying grassland birds in graduate school. Although her background is in wildlife biology, she's always loved plants. Kelsey now works for The Nature Conservancy as a rangeland ecologist in Malta.



- ☐ \_\_\_\_\_ Write-in candidate
- 

## CHAPTER AFFILIATION

Please indicate your affiliation. All members previously not affiliated have been assigned to one of the two -at-Large groups.

☐ Calypso   ☐ Clark Fork   ☐ Flathead   ☐ Kelsey   ☐ Maka Flora   ☐ Valley of Flowers  
☐ Eastern-at-Large   ☐ Western-at-Large

Number of paid members in your household \_\_\_\_\_

The MNPS Electoral College thanks **YOU!**

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From:

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Flower  
Stamp

To: Montana Native Plant Society  
Electoral College c/o Rachel Potter  
121 Grand Fir Lane  
Columbia Falls, MT 59912

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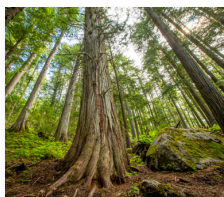
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MONTANA NATIVE  
PLANT SOCIETY





# FERNS and FORESTS 2022 Annual Meeting

JUNE  
24-26,  
2022

## TO REGISTER:

Fill out the registration form in this *Kelsey* or online. Find registration, more details and updates at <https://www.mtnativeplants.org/annual-meetings/>.

## COVID-19

To protect Meeting participants, MNPS respectfully request people only attend under the following conditions:

- You are fully vaccinated against Covid-19 (according to CDC guidance) or if not vaccinated, you have tested negative for Covid-19 within 3 days of the Meeting.
- Masks are worn inside vehicles when carpooling for field trips.

## FRIDAY WORKSHOPS

Workshops are from 1:00-4:00 on June 24th. Sign up is required at time of Meeting registration and space is limited, so register early.

**Plant Collecting Workshop with Maria Mantas.** Plant specimens are necessary for the study of plant taxonomy and geography. This workshop will focus on techniques for preparing herbarium grade plant specimens with associated labels. If you have a plant press, please bring it.

**Put Pizzazz in your Plant Pictures with Dee Blank.** Bring whatever camera you have, including smartphones, and explore how to influence the background and lighting in natural settings to bring out the beauty and unique qualities of your botanical subject. Also learn how to get good close-ups and crisp, uncluttered, images for identification.

**Citizen Botany Training.** Field testing rare plant data collection & mapping with Andrea Pipp and Kendra Herman, Montana Natural Heritage Program Botanist and Assistant Botanist. We'll test aspects of data collection and mapping of a target plant, hopefully a rare one. For the target plant we'll review plant identification materials, search for it, and work through data collection using Survey 123 software, revisit and paper forms, and map using Survey 123, GPS, and paper maps.

## CHILDREN'S ACTIVITIES

A half-day Saturday activity will be planned after we determine the numbers and ages of kids attending. Check the website for updates and email [mnps.flathead@gmail.com](mailto:mnps.flathead@gmail.com) if you have questions.

## FOOD

**Registration for meals closes June 1.** Bring your own snacks and lunches.

**Friday Dinner** (\$15 adult/\$6 child) features three hearty soups: Tuscan chicken with kale (gluten free), garden vegetable beef, and potato leek (vegetarian and gluten free), with an assortment of rolls, and a green salad.

**Saturday and Sunday Breakfasts** (\$10 adult/\$5 child – sign up for one or both) includes locally-baked fruit muffins and scones, bagels,

cream cheese, peanut butter, hard-boiled eggs, yogurts, granola, dairy and other milks, fruit, juice, coffee and tea. Gluten free granola and baked goods will be provided.

**Saturday Dinner** (\$23 adults/\$10 child) is a choice of 1) Thai chicken with eggplant, spicy green curry and jasmine rice (gluten free), 2) mushroom and leek quiche with cheddar cheese (vegetarian) or 3) lasagna Bolognese with Italian sausage. Roasted vegetables, rolls and dessert are included.

## FIELD TRIPS

Below is a **PRELIMINARY** list of trips. Distances are round trip.

## SATURDAY

**Grouse Lake** - Easy 3-mile hike. Mesic forest to a lake with a grass/sedge/alder meadow.

**Pulpit Mtn. Ridge** - Moderate 2–4-mile hike up a gentle ridge with open, sparse timber and 2000 wildfire.

**West Fork Quartz Creek** - Moderate 4-mile hike. Old growth cedars and lowland wet vegetation.

**Quartz Creek Old Growth and Lichens with Toby Spribille** - Moderate 1-mile easy bushwhack. Old growth cedar forest with lichens and ferns.

**The Bitterroot site** - Easy 1-mile hike. Open, rocky slopes with a large population of the state flower and many other species.

**Flagstaff Mtn.** - Moderate to difficult 3.5-mile hike. Open ridge to 6,075-ft Flagstaff Mtn, views, and higher elevation plants.

**Flatiron Mtn. / Rainbow Lake** - Moderate 4.5-mile. Gentle ridge to Flatiron Mountain (5,787-ft).

**Lindy Peak** - Moderate 6-mile hike. Recently planted 2017 wildfire, gentle ridge to the peak and remnants of a tree-stand fire lookout built in 1910. *Lomatium geyeri* has been seen.

**Flower Creek trail and Flower Lake** - Moderate 5.5-mile hike on the NE side of the Cabinet Mtns. Mesic forest and riparian vegetation.

**Yaak Tour** - Hensley Hill radar, big White Pine on Yaak River, big Cedar and cedar forest at 17-Mile Creek, Tiger Lilies, Browns meadow. Approximately 70-mile driving tour with short walks at each stop.

**Noisy Creek burn walk with Jack Nisbet** - Easy to moderate 3–5-mile hike to explore and discuss recent fire and historic and current perspectives on burn management.

**Introduction to Plant Identification with Ryan Quire** - ½ day workshop to learn important terminology, how to use a plant key, and practice identifying plants with the "Manual of Montana Vascular Plants". Please bring a hand lens.

## SUNDAY

We will provide directions to self-guided trips. There may be guided trips available - stay tuned!

# 2022 MNPS RAFFLE

Support the Montana Native Plant Society and its many programs and take a chance on winning some beautiful prizes. Some have been crafted by members, others by Montana artists.

**YOU DO NOT NEED TO ATTEND THE ANNUAL MEETING TO ENTER!**

Tickets can be purchased through mail on the Annual Meeting registration form. If you are not registering for the Meeting, fill out the form with only your contact info, # of tickets and \$ amount, enclose a check and mail. Tickets can also be purchased through the MNPS website at <https://www.mtnativeplants.org/annual-meetings/#raffle>, and will be for sale the Annual Meeting. Questions? Contact Laurie Kurth at: [kquills@hotmail.com](mailto:kquills@hotmail.com).

## PRIZES:



*This artfully crafted quilt was sewn by members Betty Kuropat and Pat Jaquith using MNPS Annual Meeting T-shirts. It measures 60" by 79" inches and can decorate any twin or full bed, a couch or sofa, or wall. It will be sure to bring back fond memories while sharing the beauty of Montana's plants.*



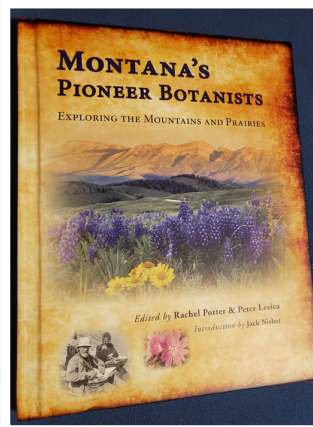
*Mountains of Montana love, metal art by Birch Creek Studio in the Bitterroot Valley. Donated by anonymous member.*



**ADDITIONAL PRIZES INCLUDE:**  
NOTE CARDS, BOOKS,  
AND MORE



*8 1/2 X 11 unframed print of a watercolor by Montana artist Jo Ellen Scott donated by anonymous member.*



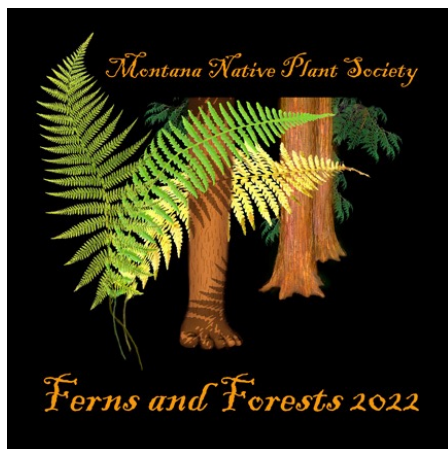
*Montana's Pioneer Botanists book. This is a limited out of print hard-back edition that is only available here and in libraries. Published by the MNPS.*



*Large Missouri River willow basket crafted by long-time member Doug Smith. 18" diameter x 9" deep.*

Winners will be selected by random drawing at the Annual Meeting in June during Saturday night's Membership Meeting. You do not need to be present to win. If you are not present, you will be notified by email or phone to determine how to deliver your prize(s) to you.





# Ferns and Forests

## Montana Native Plant Society

Annual Meeting – June 24-26, 2022

On-line registration opens  
April 10, 2022

Join us in exploring the deep forests and lush mountain slopes of northwest Montana. Our base of exploration will be Timberlane Campground, eight miles north of Libby. Excursions will include low elevation old-growth forests, slopes of the Cabinet Mountains, and wetlands of the Bull River Valley. Here you will see a broad diversity of flora, some of the largest trees in the state, and perhaps even some coastal disjunct species!

**Friday Workshops:** To attend Friday's workshops you must register by June 15. These include:

- Plant Collecting – Maria Mantas
- Put Pizzazz in Your Plant Pictures – Dee Blank
- Citizen Botany Training – Andrea Pipp & Kenda Hermann

**Friday Mixer:** Pre-dinner social hosted by the Flathead Chapter with beer, wine, other beverages, and snacks.

**Friday Evening Speaker: Jack Nisbet:** Spokane-based author and historian Jack Nisbet will join us for a fireside talk on Friday evening. He has published several collections of essays about the human and natural history of the Intermountain West, as well as award-winning biographies of David Thompson (*Sources of the River*), and David Douglas (*The Collector*).

**Saturday Field Trips:** You may sign up for Saturday and Sunday field trips Friday afternoon when checking in. All trips are subject to change depending on weather. Bring your own water, lunch, sturdy shoes, raingear, sunscreen, insect repellent, and bear spray. A partial list of half and full day trips include: Grouse Lake, Pulpit Mtn. Ridge, West Fork Quartz Creek, Flagstaff Mtn., Flatiron Mtn./Rainbow Lake, Lindy Peak, Flower Creek, Flower Lake.

**Sunday Field Trips:** You may opt to enjoy a half day field trip on your drive home. These include Kootenai Falls, Ross Creek Cedars and more! (Please refer to the Kelsey or the MNPS website for more information)

### AGENDA

#### Thursday, June 23

After 3:00 pm: Campground available to MNPS Annual Meeting participants

#### Friday, June 24

- 1:00-4:00 Workshops (early registration required)
- 3:00-6:00 Check-in and field trip sign-up
- 5:00-6:00 Mixer
- 6:00-7:30 Dinner
- 6:30-7:30 Board of Directors meeting
- 7:30-8:30 Fireside talk: Jack Nisbet, "John Lieberg's Green World"

#### Saturday, June 25

- 6:30-8:00 Breakfast
- 8:00-4:30 Field trips (pack your own lunch)
- 4:00-6:00 Wayne Phillips Plant ID Challenge
- 6:00-7:00 Dinner
- 7:00-8:00 General Membership Meeting, Raffle drawing followed by evening social

#### Sunday, June 26

- 7:00-9:00 Breakfast
- 8:30-9:30 Committee meetings. Break camp, field trips on your way home

#### Monday, June 27<sup>th</sup>

- 11:00 am Campground Checkout

### WHAT TO EXPECT

The 2022 Annual Meeting will be in a rustic setting. Accommodation choices on site are RV or tent camping. There are several vault toilets and running water. **There is no electricity and no cell phone service.** Garbage service is provided. A pavilion and canopy tent will offer shelter if needed. Motels and cabin rentals are available in the nearby town of Libby. Breakfast bar (Saturday and Sunday) and catered dinners (Friday and Saturday) will be offered for a fee (see back of this form). **Lunches are on your own.** Please remember to bring cash (or checks) if you wish to purchase raffle tickets or other merchandise.

### WHAT TO BRING

- |                  |                                              |
|------------------|----------------------------------------------|
| • Lawn chairs    | • Facemasks                                  |
| • Food for lunch | • Sunscreen                                  |
| • Snacks         | • Insect repellent                           |
| • Tableware      | • Bear spray                                 |
| • Mug            | • Cash or checks for miscellaneous purchases |
| • Water bottle   |                                              |
| • Raingear       |                                              |

PETS ARE NOT ALLOWED ON MNPS ACTIVITIES



## REGISTRATION

- Registration and payment will be available on-line starting April 10<sup>th</sup> at <https://www.mtnativeplants.org/annual-meetings/>
- Registration is required by June 1<sup>st</sup> if ordering meals. Registration will be open until the weekend of the meeting for those not ordering food.
- Due to Covid-19 and campsite limitations attendance is limited to 100 people.
- No refunds after June 1<sup>st</sup> (refunds available for cancellations due to illness)
- YOU MAY NOT REGISTER AT THE MEETING IF CAPACITY HAS BEEN REACHED, SO REGISTER EARLY!

## LOCATION: Timberlane

Campground is located 8 miles north of Libby, Montana on Pipe Creek Road. To reach the campground from Libby, travel north on Montana Highway 37. Cross the Kootenai River and travel one mile to Pipe Creek Road. Timberlane is 7 miles up the Pipe Creek Road on the left.

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

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ E-Mail: \_\_\_\_\_



## REGISTRATION

Keep a copy of this form as a record of your registration and meal orders

	rate	#people	\$total
Adult Registration (ages 12 and up) MNPS Member -	\$35		
Non-member * -	\$65		
Child Registration (ages 11 and under) Please include children's ages**:	FREE		
<b>MEALS</b> - All meals include vegetarian and gluten free options. (Please refer to the MNPS website for full meal descriptions)	<b>adult/child</b>	<b>#meals adult/child</b>	
Friday Dinner (hearty soups with bread and salad)	\$15/\$6	/	
Saturday Breakfast	\$10/\$5	/	
Saturday Dinner (meal choices below)			
1. Mushroom and leek quiche with cheddar cheese (vegetarian)	\$23/\$10	/	
2. Thai chicken with eggplant and spicy green curry (gluten free)	\$23/\$10	/	
3. Lasagna Bolognese (with Italian sausage)	\$23/\$10	/	
Sunday Breakfast	\$10/\$5	/	
<b>Raffle Tickets</b> (refer to the Kelsey or MNPS website for more information) \$2 each, 6 for \$10, 15 for \$20		#	
<b>TOTAL PAYMENT</b>	→	→	\$

## WORKSHOPS

If you wish to attend one of the Friday workshops you must register by June 15. Write in the number of people attending. Workshop space is limited so register soon! (refer to the Kelsey or the MNPS website for more information)

- **Plant Collecting** with Maria Mantas (#\_\_\_)
- **Put Pizzazz in Your Plant Pictures** with Dee Blank (#\_\_\_)
- **Citizen Botany** with Andrea Pipp & Kenda Hermann (#\_\_\_)

\*Join MNPS today to register at the discounted member rate

\*\*This info will help us tailor activities for kids



For More Information Contact:

[mnps.flathead@gmail.com](mailto:mnps.flathead@gmail.com)

We encourage you to register and view meeting details on-line at <https://www.mtnativeplants.org/annual-meetings/>  
Make checks out to MNPS. Send payment and form to:

**MNPS Flathead Chapter**  
c/o Rebecca Lawrence  
1115 McMannamy Draw  
Kalispell, MT 59901

## COVID-19

At the time of this announcement, the MNPS Board of Directors determined to move forward with the 2022 Annual Meeting. To protect meeting participants, however, MNPS respectfully requests people only attend under the following conditions:

- **You are fully vaccinated against Covid-19** (according to CDC guidance) **or if not vaccinated, you have tested negative for Covid-19 within 3 days of the meeting.**
- **Masks are worn inside vehicles** when car pooling for field trips.

If the MNPS board determines the risk to its membership has changed according to guidance by the CDC, MNPS may cancel this Annual Meeting. If the meeting is cancelled all registration fees will be fully refunded. Check our website for Covid-19 updates.

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 Montana Native Plant Society at U. S Forest Service, Timberlane Campground and related field trips in or near the Kootenai National Forest, June 24 - 26, 2022.

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

**MNPS 2021 BUDGET - Final**

Prepared by: Shannon Kimball and Laurie Kurth

	<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>						
<b>Membership</b>	<b>\$15,000.00</b>	<b>\$19,056.31</b>	<b>(\$5,340.00)</b>	<b>(\$5,611.23)</b>	<b>\$9,660.00</b>	<b>\$13,445.08</b>
Dues and Fees	\$15,000.00	\$19,056.31	(\$840.00)	(\$172.23)		
Chapter Portion	\$0.00	\$0.00	(\$4,500.00)	(\$5,439.00)		
<b>Newsletter</b>	<b>\$0.00</b>	<b>\$40.00</b>	<b>(\$8,000.00)</b>	<b>(\$6,386.39)</b>	<b>(\$8,000.00)</b>	<b>(\$6,346.39)</b>
<b>Operating Budget</b>	<b>\$4,000.00</b>	<b>\$7,305.00</b>	<b>(\$2,660.00)</b>	<b>(\$2,145.31)</b>	<b>\$1,340.00</b>	<b>\$5,159.69</b>
Awards	\$0.00	\$0.00	(\$300.00)	(\$704.89)		
Committees	\$0.00	\$0.00	(\$500.00)	\$0.00		
Board Expenses	\$0.00	\$0.00	(\$200.00)	(\$14.85)		
Website	\$0.00	\$0.00	(\$460.00)	(\$261.00)		
Donations	\$4,000.00	\$7,205.00	\$0.00	\$21.08		
Publications	\$0.00	\$0.00	(\$350.00)	\$0.00		
Operating Expenses	\$0.00	\$100.00	(\$350.00)	(\$1,185.65)		
At-Large Expenses	\$0.00	\$0.00	(\$500.00)	\$0.00		
<b>GOE TOTALS</b>	<b>\$19,000.00</b>	<b>\$26,401.31</b>	<b>(\$16,000.00)</b>	<b>(\$14,142.93)</b>	<b>\$3,000.00</b>	<b>\$12,258.38</b>
<b><u>SPECIAL PROJECTS</u></b>						
Small Grants Fund	\$0.00	\$0.00	(\$4,850.00)	(\$3,350.00)		<b>(\$3,350.00)</b>
UM Herbarium Donation	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$0.00</b>
MT Audubon Donation	\$0.00	\$0.00	(\$500.00)	(\$500.00)		<b>(\$500.00)</b>
Chapter Projects	\$0.00	\$0.00	\$0.00	\$0.00		<b>\$0.00</b>
Annual Meeting	\$0.00	\$40.00	\$0.00	\$0.00		<b>\$40.00</b>
Pioneer Botanist Book	\$50.00	\$0.00	\$0.00	\$0.00		<b>\$0.00</b>
<b>SPECIAL PROJECTS TOTALS</b>	<b>\$50.00</b>	<b>\$40.00</b>	<b>(\$5,350.00)</b>	<b>(\$3,850.00)</b>	<b>(\$5,300.00)</b>	<b>(\$3,810.00)</b>
<b>TOTALS</b>	<b>\$19,050.00</b>	<b>\$26,441.31</b>	<b>(\$21,350.00)</b>	<b>(\$17,992.93)</b>	<b>(\$2,300.00)</b>	<b>\$8,448.38</b>



**MNPS PROPOSED 2022 BUDGET - 3/1/2022**

Prepared by: Laurie Kurth

	<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>						
<b>Membership</b>	<b>\$19,400.00</b>	<b>\$8,910.00</b>	<b>(\$3,900.00)</b>	<b>\$754.37</b>	<b>\$15,500.00</b>	<b>\$9,664.37</b>
Dues and Fees	\$19,400.00	\$8,910.00	\$0.00	\$402.37		
Chapter Portion	\$0.00	\$0.00	(\$3,900.00)	\$352.00		
<b>Newsletter</b>	<b>\$1,000.00</b>	<b>\$400.00</b>	<b>(\$8,000.00)</b>	<b>\$1,691.75</b>	<b>(\$7,000.00)</b>	<b>\$2,091.75</b>
<b>Operating Budget</b>	<b>\$4,000.00</b>	<b>\$2,275.00</b>	<b>(\$2,460.00)</b>	<b>\$184.98</b>	<b>\$1,540.00</b>	<b>\$2,459.98</b>
Awards	\$0.00	\$0.00	\$0.00	\$0.00		
Committees	\$0.00	\$0.00	\$0.00	\$0.00		
Board Expenses	\$0.00	\$0.00	\$0.00	\$0.00		
Website	\$0.00	\$0.00	(\$1,060.00)	\$87.00		
Donations	\$4,000.00	\$2,275.00	\$0.00	\$2.28		
Publications	\$0.00	\$0.00	\$0.00	\$0.00		
Operating Expenses	\$0.00	\$0.00	(\$900.00)	\$95.70		
At-Large Expenses	\$0.00	\$0.00	(\$500.00)	\$0.00		
<b>GOE TOTALS</b>	<b>\$24,400.00</b>	<b>\$11,585.00</b>	<b>(\$14,360.00)</b>	<b>\$2,631.10</b>	<b>\$10,040.00</b>	<b>\$14,216.10</b>
<b><u>SPECIAL PROJECTS</u></b>						
Small Grants Fund	\$0.00	\$0.00	(\$3,200.00)	\$750.00		\$750.00
UM Herbarium Donation	\$0.00	\$0.00	(\$1,000.00)	\$0.00		\$0.00
MT Audubon Donation	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
Chapter Projects	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
Annual Meeting	\$5,000.00	\$0.00	(\$5,000.00)	\$5,000.00		\$5,000.00
Plant Conservation Conference	\$0.00	\$0.00	(\$1,000.00)	\$0.00		\$0.00
Citizen Botany Project	\$0.00	\$0.00	(\$5,000.00)	\$0.00		\$0.00
<b>SPECIAL PROJECTS TOTALS</b>	<b>\$5,000.00</b>	<b>\$0.00</b>	<b>(\$15,200.00)</b>	<b>\$5,750.00</b>	<b>(\$10,200.00)</b>	<b>\$5,750.00</b>
<b>TOTALS</b>	<b>\$29,400.00</b>	<b>\$11,585.00</b>	<b>(\$29,560.00)</b>	<b>\$8,381.10</b>	<b>(\$160.00)</b>	<b>\$19,966.10</b>