



# Missouri Native Plant Society Hawthorn Chapter Newsletter

Volume 33, Number 9  
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We would like to read about announcements, impressions, species accounts, photos, poems, links to scientific articles or other creative nature writing **from you, too.**

September 2018

## Future Activities Calendar

**4 Sept Tuesday 4 to 7 p.m. First of the 6-week Master Pollinator Stewardship Program at Prairie Fork C. A.** (4200 State Rd D, Williamsburg, MO- 18 miles east of I-70 & US 54 interchange). \$90/person for the series. See page 3.

**8 Sept Saturday 10am to 5 pm: Fabric dyeing using native plants workshop** given by Carol Leigh Brack-Kaiser. See article inside on Page 2. Very few reservations have come in, but space is limited. Bring your own food, beverage and a folding chair.

**10 Sept Monday 7 pm Members Meeting** Unitarian Universalist Church, 2615 Shepard Blvd, Columbia. Cindy and Becky will give a program on plant identification. Bring a well pressed sample or a very fresh sample of something you can't find in your plant id books.

**14-16 Sept, State field trips. SEDALIA, MO** - Possible Sites: Paintbrush Prairie, Goodnight-Henry Prairie, Gayfeather Prairie, Marker Prairie, Drovers Prairie, and others. Info about motels and exact mosey locations were sent from State in August. It is highly recommended to spend this weekend exploring all the best prairies left in MO.

**20 Sept Thursday 11:30 Lunch at RagTag.** 10 Hitt St, just south of Broadway.

**30 Sept Sunday 1pm Moss Mosey at 3-Creeks CA led by Louise. See article Pg 3.**

**6 Oct Saturday 10am to 4pm Chestnut Festival** at HARC in New Franklin. Please mark your calendar now to help work the booth. A detailed flyer and volunteer coordinator will be available in Sept.



This is the 33<sup>rd</sup> year Hawthorn has supplied a newsletter to chapter members.

Thanks to Doug Miller for keeping the chapter website up to date. If you want to add photos to our website send sharp, clear, identified photos to Doug.

Thanks to Louise, Lea, Glenn, and Carol Leigh who sent information in early.



**Welcome new chapter members  
Kitty Peer and Cheryl Hardy.  
Hope you can join our activities.  
If there is something different you want to do or  
learn, please let an officer know.**





## Announcements



### Lunch at RagTag Thurs 20 Sept

Meet our group for lunch 11:30 at RagTag, 10 Hitt St [Just south of Broadway]. Lunches have been well attended with lively discussions about plant and landscape management, alien control, and plans for the next activity. Hope to see you there.



### Natural Dye Workshop

Greetings Hawthorn chapter members!  
I would like to invite you to Hillcreek Fiber Studio for a workshop on obtaining a rainbow and more of colors from native Missouri plants: reds from pokeberries, purples/teal from elderberries, yellows/gold from goldenrod, orange/brown from bidens, browns from walnuts, buff/charcoal from sumac, and more. We will obtain several colors from each dye pot, using a variety of mineral salts.

**When: Saturday Sept 8, 2018, 10am to 5pm.**

**Where: 7001 South Hill Creek Road, Columbia** (take Providence Rd south, continue straight a little over one mile on Route K, turn left on Hill Creek Rd. We're one-half mile, in the valley, on the right. "Carol Leigh's Specialties" on wooden sign, and black mailbox with "Hillcreek Fiber Studio" both just before the driveway. Please park in the rear of the house, where the dye pots will be cooking.

What: We will be dyeing wool potholder loops -- enough so everyone will have several of each color, to label one for your records, and more to weave a couple potholders. Wool makes the most sense for potholders, when working around heat and flame, as wool is fire retardant and more insulative than even cotton.

**Bring: Not necessary, but helpful: Pokeberries, Elderberries, Staghorn Sumac berries, if you have access to them and wish to bring.**

**Cost: \$20**

**Workshop maximum: 15**

**Please call to reserve your space: 573-874-2233**

Looking forward to working with you all.  
Naturally Colorful, Carol Leigh Brack-Kaiser  
[www.hillcreekfiberstudio.com](http://www.hillcreekfiberstudio.com)



## Register Your Garden For Monarchs

Sign up your garden as a Monarch Waystation with Monarch Watch. Then Join WildOnes [native landscaping] and register your garden for a beautiful sign.



## LINK UP!!

I finally got onto the Biota of North America. The distribution maps are fascinating!

<http://www.bonap.org/>

I realize I'm the last to discover a good thing, but I'll post this for all who are one step behind me.

iNaturalist is a world-wide site used by 300G people who have made 10M observations.

Have a great time exploring!

<https://www.inaturalist.org/>

### Excellent first stop for regional resources and links to other natural history blogs.

Nadia's Yard: a blog by Randy Tindall

<http://nadiasyard.com/>

MONPS website

[www.monativeplantsociety.org](http://www.monativeplantsociety.org)

Link up with Jenks Farmer: <http://jenksfarmer.com/>  
Bush honeysuckle removal – contact Eric Bohle  
[ebohle4@gmail.com](mailto:ebohle4@gmail.com)

Natural Events at Chert Hollow Farm: An archive of monthly natural events posts going back to 2011 is indexed here:

<http://chert hollow farm.com/landscape/>

Wren Song

<http://www.ecosystemgardening.com/wren-song/>

Insect conservation: Xerces Society [www.xerces.org](http://www.xerces.org)  
<https://xerces.org/bringbackthepollinators/>  
<https://xerces.org/2018/04/19/tropical-milkweed-a-no-grow/>  
<https://xerces.org/2018/04/04/rain-gardens-are-a-win-win/>

Plant identification: USDA plant database <http://plants.usda.gov>  
Grow Native resources: [www.grownative.com](http://www.grownative.com)



## Master Pollinator Steward

Pollinators — such as bees, birds, butterflies, bats and insects — play a crucial role in the production of most fruits and vegetables. They also support healthy ecosystems that clean the air, stabilize soils and support wildlife.

[Left: tiger swallowtail on *Liatris pycnostachya*.

Right: native bee on *Asclepias tuberosa* BE photos]



Studies show that pollinator populations are in decline because of a loss of feeding and nesting habitats, pollution and the misuse of pesticides. Learn how to protect our agricultural economy and food supply with the Master Pollinator Steward program.

MU Extension specialists and stakeholders in the field developed this unbiased, research-based curriculum, which includes hands-on activities and classroom presentations.

MU Extension in partnership with the Boone Regional Beekeepers and Prairie Fork Conservation Area will host a program on Tuesday's from 4 to 7 p.m. at Prairie Fork C. A. (4200 State Rd D, Williamsburg, MO- 18 miles east of I-70 & US 54 interchange). \$90/person for the series.

Presenters will include:

- Amber Edwards- Education Coordinator for Prairie Fork Conservation Area
- Valerie Duever- Commercial Beekeeper and Teacher
- James Quinn- Horticulture Specialist

**To register, send the usual personal info by email [coleco@missouri.edu](mailto:coleco@missouri.edu) or call the Cole County Extension Center at 573-634-2824**

September 4<sup>th</sup>- Insects

September 11<sup>th</sup>- Plant pollinator relationship

September 18<sup>th</sup>- Honeybee variants and their habitats

September 25<sup>th</sup>- Honeybee 'Ps'- pests, products, and pollination

October 2<sup>nd</sup> - Native Pollinators

October 9<sup>th</sup>- Conserving, creating and managing pollinator habitat

## Moss Mosey

Hosted by Louise.

RSVP is not necessary but sincerely welcomed.

Hope to see you there. ([lflenner@hotmail.com](mailto:lflenner@hotmail.com))

Please plan to come for a walk along **Turkey Creek Trail at Three Creeks Conservation Area on Sunday, Sept. 30 starting at 1:00 p.m.** We'll start at the parking lot off of Hwy 63 that is the Deer Park Rd. entrance to this Conservation Area. The trees should be showing some Fall color and late blooming native plants will be out. But the major focus of the walk will be to appreciate the varieties of moss that so often go overlooked. The most beautiful moss gardens are the ones that plant themselves naturally.

Some are spread out on the soil. Some form a complete garden of beauty on a single rock; occasionally BE photo> they cover an entire



rock outcropping reaching up 100's of feet. Others give color to fallen logs or climb up trees. Often their best friend, lichen, is there to accent the beauty. Appealing as these mosses are with the naked eye, the true wonderment comes when looked at through a jeweler's loupe or a magnifying glass or microscope. If you have a loupe or magnifying glass, bring it so we can

share. The focus of the walk is not identification as this is very hard with moss, but we can share what knowledge members of the group already have and marvel at this often overlooked world of moss.

<BE photo



Here are some books that awakened a love of moss in me:

- The Magical World Of Moss Gardening by Annie Martin (identify dozens of species, propagate moss successfully, and design and install a moss garden)
- Gathering Moss, A Natural and Cultural History of Mosses by Robin Wall Kimmerer (Contains personal stories and scientific information about moss, very interesting reading even if moss isn't your thing. Winner of the John Burroughs Medal for Natural History Writing)
- Moss Gardening, Including Lichens, Liverworts, and Other Miniatures by George Schenk (Great photos!)
- Common Mosses of the Northeast and Appalachians by Karl B McKnight, Joseph R. Rohrer, Kirsten McKnight Ward and Warren J. Perdrizet (As close as we get in this area to a Field Guide)

## Hawthorn meeting minutes 9 July 2018

These minutes are subject to approval at Meeting 10 Sept. They will not be reposted if approved.

Meeting called to order at 7:05pm by Cindy Squire who introduced our speakers.

Tom Wellman [Eng Spc on San Sewers in Como] and John Mehuys [Env Tec for Como] have been working together on the Hinkson Creek Collaborative Adaptive Management Program. Hinkson had a non-point pollution problem in the early 1990's to a level it was designated an impaired waterway. Many stakeholders – DNR, MU, Boone Co., Columbia, MoDOT, private landowners, businesses – agreed on a research plan to find the pollution sources. From Perche Creek to headwaters of Hinkson, macroinvertebrate and water chemistry samples were taken every 50 yards twice per year for 6 years. There really was no definable source of pollution; it was coming from all human activity throughout the watershed.

Some physical issues had to be addressed to repair the creek channel. A concrete feature that looks like a curb was installed across Hinkson in the Forum bottomland. This is designed to divert and spread flood waters over 120 acres to slow water and allow it and pollutants to soak into bottomland soil. Many areas of streambank stabilization and repair of downcuts have been accomplished or are in process.

Five spots on Hinkson have been designated for continuous macroinvertebrate and water chemistry sampling to help guide future management.

The environmental part of the Hinkson Creek Restoration is replacing present vegetation with more historically native plant communities. Numerous invasive species have been treated with the understanding this issue will be ongoing. Trees have been planted in that area to restore bottomland hardwood forest. Hopefully, as the trees mature, they will shade out a majority of invasive plants. Some areas loaned themselves to prairie communities. There has been the expected invasion of mammalian herbivores into these areas planted with natives. It is difficult to establish a new forest when all the saplings are so yummy.

Future aspirations are for Hinkson corridor to be developed into part of the trail system with educational interpretation plaques. There would also be an opportunity for people to use kayaks on some parts of the Creek.

Much of the management plan involves sanitary sewer upgrades, major artery improvements, neighborhood rain water detention areas, and road rights-of-way need to have mowed turf replaced with large strips of native vegetation which allows far better rain absorption than turf. [Ed. note: these areas need volunteer help with weeding and planting. Hawthorn is presently interested in adopting one.]

7:45 Cindy started the business meeting

- **Minutes** from May meeting were accepted.
- **Chapter Rep report:** Cindy attended the board meeting. PP editor has been hospitalized so PP will be abbreviated and late. PP printed on paper is very expensive. Cost to request paper copies is raised to \$10/yr. State is building a new website and doing less on FaceBook due to security issues and disorganization there. Missouriensis will start to be continuously published as articles come in; notice will be sent when new articles are posted. State has decided to update bylaws.
- **Booth:** Vanessa has turned pamphlet and book ordering over to Louise who has kept and transported those items for the booth for 3 years. Paula agreed to help Louise with ordering during 2018- spring19.
- **Possible Moseys:** Moss walk lead by Louise at 3-CreeksCA in Sept. Woodland color walk in Grindstone in Nov. When deciding on dates committee needs to be aware of activities already calendared.
- **Speakers:** Sept Meeting program was agreed to be presented in tandem by Becky and Cindy. Becky will bring the traditional flat of plants to be identified and Cindy will use them as examples of how to identify them by Family. Other samples can be brought for identification; **PLEASE bring a stem, sets of leaves and flower pressed flat between newspaper and under a heavy book, or very fresh similar sample picked the same day and kept in water or refrigerated.** We can't do much with wrinkled, dry, wilted, partial samples.
- **Possible Columbia garden adoption:** JohnM suggested we adopt the garden space in front of the Recycle Lot **on the frontage road North of Gerbes grocery at Providence and Grindstone.** Valerie and JohnM agreed to organize work days; Becky will send announcements.
- **Chestnut Festival:** 6 October. Correct information will come when CF Comm Organizers have sent Nancy the complete information. For people who will help us in the booth: please save that date.
- **Missouri Prairie Foundation Annual Dinner:** the chapter attendees voted unanimously to donate \$1000 to sponsor a table at the MPF dinner: Aug 4, 5-9pm. All spaces are free to any Hawthorn member who wants a reservation.
- Meeting adjourned about 8:50

## Volunteers With Native Plants

*Text and photos submitted by Lea Langdon*

For several years I have been coordinating a group of volunteers interested in helping care for various native plant sites. [pictured is the prairie at Mill Creek Elem]

Many of these sites are in Columbia Public Schools Outdoor Classrooms, in their pollinator gardens, planted prairies, woodland trails, rain gardens and pond edges (and sometimes their veggie gardens as well).

Sometimes we work with students, and other times we maintain the habitats that the teachers will share with the students at a later time. I know that teachers are more likely to take their students outside for learning if the pollinator gardens have not grown over the path, and kids always enjoy service-learning activities such as planting and mulching native plants. It is important for kids to have a chance to experience being outdoors so they will want to care for our natural spaces as they grow up. One site we work on regularly is the RBHS rain garden.



[< < picture is paintbrush at Mill Creek Elem.]

We often work on city property, like Bonnie View Nature Sanctuary's prairie oval and glade plantings, or even on a parcel owned by MU that is a Wild Ones site at Epple Fiend. In each case we are helping to encourage native vegetation and diversity, while removing invasive species that can take over these areas, reducing both their diversity and their usefulness for wildlife &/or people. As volunteers, we are privileged to see these areas as they change throughout the seasons.

[Continued on column below . . . ]

## Ten Years Later:

### Rock Bridge High School Rain Garden

*Text and photos submitted by Glenn Pickett*

It started early 2006, with a city ordinance mandated surface water detention basin adjacent to a new parking lot at Rock Bridge High School. It was a 5000 square foot bowl shaped depression and seeded to annual Rye. In just a few weeks after completion the detention basin was cut with 12 inch gullies eroded by fast moving runoff from the parking lot. A major eyesore for the front lawn of RBHS was in the making.

Sparked by a question/suggestion from Chester Edwards, then the director of Building Services for the Columbia Public Schools, I launched a student project to convert the ugly detention basin into a functional rain garden. The City of Columbia supported our application for an EPA grant for 'best management practices' for storm water runoff. The MO DNR supported our project with an Outdoor Classroom grant, and the school PTA and extracurricular clubs also supported the project for the school. The Columbia School District donated some labor, machinery and materials. In the end close to \$10,000 in grants and in-kind contributions made the Rock Bridge Rain Garden become a reality.



Students in my 2006-2007 Environmental Science classes 'designed' the garden, studied and chose plant species. During the 2007-08 school year, plants were purchased and planted by students in my classes. Ten years later, the garden thrives; it functions as intended, and has been a great resource for teachers at the school and the entire Columbia community.



Hibiscus sp.

[Continued on column below . . . ]

We may also hear or see interesting insects, or signs of other wildlife. I often act as mentor to those new to the native plants, helping identify plants, and sharing what I know about caring for an area where we work. Since most of us have some knowledge to share, I also enjoy learning from my volunteers. Besides the growing camaraderie, another small perk is that there are often extra native plants to share, or native edibles to taste.



[*Silphium integrifolium* Rosinweed GP photo]

My network of volunteers come from Missouri Master Naturalists, Wild Ones, and the Hawthorn Native Plant Society, but also include anyone who shows interest in being a part of this intention to help provide habitat for wildlife, to connect children with nature, and to create beauty. Some volunteer once a year, and others may come out to a particular site that they feel connected to, or whenever they have the time.

**If you would like to receive my monthly or weekly update email listing of volunteer opportunities, please let me know by emailing me at [langtree@gmail.com](mailto:langtree@gmail.com)**



### Deer Repellent by Becky

I used this extensively on the seed production plots 15 years ago before they paid to put up the 10 ft deer fence. [you have to ask me personally for the whole story.] I paid \$120 for a half gallon of the original concentrate and said 'SERIOUSLY??!!' when I read the ingredients.

3 weeks ago, I installed a planting in a really wild place and used this. I came back 2 weeks later - all is well. Let me know if it works for other walking stomachs.

For the last several years, maintenance of the garden has been coordinated by Lea Langdon and me. Together with volunteers from Master Naturalists and others, we've managed to keep most of the undesirable plants out. We've added new species and watched the rain garden plant community change for the better. The people that help to maintain this garden have the pleasure of watching it change with the seasons, enjoy the sights and sounds of many insects doing their work, and find satisfaction with the knowledge that they are helping the central Missouri environment. **Won't you join us?**

Contact Lea Langdon at [langtree@gmail.com](mailto:langtree@gmail.com) or me at [gpickett@centurytel.net](mailto:gpickett@centurytel.net).

In an environmentally conscious community that boasts many rain gardens and parks, the Rock Bridge site remains the largest Rain Garden, continues to garner acclaim, and is perhaps the most functional of them all. Feel free to stop by anytime.

"...the psychological benefits to humans of green space are closely linked to the diversity of its plant life..." Jonah Lehrer



### Help Us Create a Bibliography of Educational Books

This is an opportunity to help your NPS chapter without going outside or even leaving your living room!! We are in the process of creating a bibliography to educate our members. Disseminating education about Native plants is what we are about.

Please choose books that are related to Native Plants, their care, identification, relationships, uses, and related information. **3 books** per member is needed.

Classify your book as **Beginner**, **Intermediate**, or **Expert**. A recommendation is always quite helpful in choosing what to read or buy. **Include Title, Author, Publisher, Copyright Date (if known)**

**Please send your submissions to Louise Flenner at [lflenner@hotmail.com](mailto:lflenner@hotmail.com).**



So here is a half gallon of same stuff you can make for about \$10. Get the last 3 things at Clover's.

10 egg whites only [Yolks can be something good to eat.]

1 teaspoon wintergreen oil

1 teaspoon rosemary oil

2 tablespoons guar gum powder

Buzz in blender; while buzzing add water until full. Store in a LABELED jug in fridge. It has never exploded, so can be useful for years. Stinkier is better. For use: shake jug vigorously. Put about 15% in the bottom of a quart spray bottle and fill with

warm water. **Shake vigorously**. If it won't go thru the sprayer, pour some back in the concentrate jug and add more water until it is thin enough. Spray directly on plants or fence. Repeat after heavy rain or about 2-3 weeks of dry weather.

**Please Step Forward For Service**

Please contact one of the officers ready to volunteer a little time to a very good environmental and educational service. We need people to serve as officers, to grow plants for fundraising and we need people to man our information booth at events such as Earth Day and Bradford Plant Sale. If you get this only by mail, please consider requesting email delivery; it saves us money.

- Regular (\$16.00)\*
  - Student (\$11.00)
  - Contributing (\$26.00)\* designate chapter or state
  - Paper postal service (\$10)
  - State Lifetime (\$200)
  - Chapter Lifetime (\$120 – you must also be a member of the state organization to utilize this option)
  - Chapter only (\$6.00 – this is for members who already belong to State and another chapter).
- \*Includes both Chapter (\$6) and State (\$10) dues.  
 Make check payable to: **Missouri Native Plant Society.**  
**Send check and this form to:** Paula Peters, 2216 Grace Ellen Dr., Columbia, MO 65202



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**MEMBERSHIP FORM**  
**Missouri Native Plant Society-**  
***Hawthorn Chapter***

**July 1 through June 30. Dues are Due NOW!**

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Phone: Evening \_\_\_\_\_

Day or Cell \_\_\_\_\_

Email: \_\_\_\_\_

Method of receiving chapter newsletter:  
(circle preference) **Email**      **Regular mail**  
**As of July 2015 edition of the Petal Pusher printed on paper, sent by post, will cost an additional \$10 more than standard membership. Email delivery brings you color photos and it saves NPS money. With email delivery you also receive updates and announcements between newsletters. Regular Mail includes NO interim updates or reminders without request for phone contact.**

