



July – August 2017 NEWSLETTER OF THE MISSOURI NATIVE PLANT SOCIETY Volume 32 No.4

“... to promote the enjoyment, preservation, conservation, restoration, and study of the flora native to Missouri.”

ANNOUNCEMENTS

2017 Field Trip Schedule

Please join us on our field excursions in 2017 to explore the phenomenal flora of Missouri! Mark your calendars now so you don't schedule conflicting activities later. These weekends are not to be missed. General locations are solidified, but specific field trip sites are very tentative.

Fall 2017 – Ava, MO area - September 22-24 - Glade Top Trail, Taney Mountain, Ozark Underground Lab, McClurg Glade. Ed Note: Taney Co Ozark Underground Lab is NOT to be missed. I have been there twice. Owner is an amazing steward.

2017 SUMMER FIELDTRIP INFORMATION

Organized by Dana Thomas

The MONPS summer field trip is coming up soon, on July 7-9, 2017!

For the most finalized and up-to-date details, maps and species lists for both trips, please visit [The Missouri Native Plant Society website](#) and our [Facebook Page](#)

Visit the self-updating [Google Map](#) for detailed directions.

Come explore the botanical hotspots of the northeast corner of Missouri! Make your hotel reservations soon (see below). There are many excellent field trip locations to choose from in the northeast region, but we have not yet created the final itinerary. So watch the [MONPS Website](#), the [Facebook Event Page](#) and the [Google Map](#) for updated information closer to July 7th! Some of the many sites we are considering include Accola Woods Preserve, Rose Pond Conservation Area, Goose Pond Conservation Area, Steyermark Woods Conservation Area, Deer Ridge Conservation Area, Charlie Heath Conservation Area, Crawford Estate Conservation Area, Elmslie Conservation Area, Illiniwek Village State Historic Site, Wakonda State Park, and Des Moines River Ravines Natural Area. We will have a presentation about the region (speaker TBA) on Friday evening.

Lodging: We did not reserve a block of rooms at a specific hotel. But there are several options for lodging in the region of the field trips. For those who would like to stay in-state, there are two choices: The Welcome Inn in Kahoka, MO (pop. 2,100) or Oak Hill Inn and Suites in Canton, MO (pop. 2,400). Or there are several hotels in Keokuk, IA (pop. 10,700), just across the state line.

Hotels/Motels:

Welcome Inn – Kahoka, MO-81, Kahoka, MO 63445, 660-727-3326, welcomeinnkahoka.com

Quality Inn & Suites Keokuk North, 3404 Main St, Keokuk, IA 52632, 319-524-9000, www.choicehotels.com

Super 8 Keokuk, 3511 Main St, Keokuk, IA 52632, 319-524-3888, www.wyndhamhotels.com

Oak Hill Inn & Suites, 1701 Oak St, Canton, MO 63435, 573-288-8800, www.oakhillinnandsuites.com

Camping: Hickory Haven Campground, 2413 353rd St, Keokuk, IA 52632, 319-524-8459, <http://www.hickoryhavencampgroundkeokuk.com/>

An addendum will come out by email as soon as more details are finalized.

We are a Dues Paying Organization

If you appreciate information from our Facebook site, please consider paying for a membership. The cost is VERY LOW.

If annual renewal is becoming a nuisance, please consider a Lifetime Membership.

We value our members in the hopes that they will teach what they have been taught,
and urge you to keep your membership current.

Dues are Due now.

Membership renewals for the July 2017-June 2018 year are due. If you receive your newsletter by postal service delivery, please check the top line of your mailing label. If it shows the date 20170630, your dues are now payable. When renewing, please remember to include all of your contact information including email address, and your society and chapter dues preferences. Membership renewal online is also available via our website at www.monativeplants.org which offers the option of online payment via PayPal.

For those members receiving their newsletter by email without a mailing label and you know you pay only once per year, your dues are due; send them to Ann Early. Or for others with questions about their membership status, please contact me or your chapter representative (see back page for contact details) for information about your membership expiration date. It doesn't hurt to pay ahead so you don't miss any first-hand information.

We value our members and urge you to renew today!

Welcome New Members!

Is your friend's name here?

If you read us on Facebook— is your name here?

Membership is easy and very low cost see

<http://monativeplants.org/membership/>

Kansas City

Jerry Mills, Liberty

Alan & Cathie Rhodes, Spring Hill, KS

St. Louis

Anne & Bob Horton, Manchester

Renee Johnson, Lemay

Hawthorn

Mary Logsdon, Columbia

Jan Harcourt, Jefferson City

John C. Williams, Columbia

Southwest

Clyde Eppard, Neosho

Osage Plains

Ozark

Perennis

Empire

State Level Membership

Lorely Lather, St. James

Edith Starbuck, Rolla

Rhoda Parker, Rolla

Linda Frederick, Rolla

Welcome to new members.

We all hope your membership with Mo Native Plant Society is fulfilling. When you first sign up you need to do one more thing. You need to send your request for email delivery to the Petal Pusher editor, Becky [see Masthead]. Please do not wait several months to find out your address has been lost in the transfer. If you don't get the information you need, let us know. If there is a wild area you think we should visit, let us know. This is a democratic organization; everyone is invited to all MONPS activities and all suggestions will be heard.

And there is a new chapter forming in Rolla with possibly 16 new members. If you live near there and want to participate, get in touch with us. Hope to hear more about this development in the next Petal Pusher.

Missouriensis Goes Digital

Submitted by Doug Ladd, Missouriensis Editor dladd@tnc.org

[Updated entry:] Doug Ladd announced at the June Meeting that he is working on publishing 5 papers in the next Missouriensis issue. And there are a few already lined up for an issue at the end of this year. Reviewers usually put edits and comments on these papers in the middle of the 'to-do list' so this first electronic edition is not coming out as soon as Doug had hoped.

Earlier this year, the Missouri Native Plant Society board voted unanimously to convert the Society's journal, Missouriensis, to a completely electronic format. The journal will be published and distributed electronically to members in PDF/A format, ensuring long-term archiving compatibility. The editor is exploring inclusion in multiple global on-line search indices, such as *Botanicus*, *Biodiversity Heritage Library*, and *Scopus*. Recipients will be able to easily print copies of any or all portions of each issue as desired. For priority and citation purposes, the date of electronic posting of the journal will be the date of effective publication.

Current plans are to continue publishing a single volume per year, although future options include continuous electronic publication of articles as they become available. The editorial procedure will remain substantially the same as previously – articles of relevance to Missouri flora, vegetation, and related issues are encouraged to be submitted to the editor, who will coordinate peer reviews and work with the authors on any required revisions and edits.

The transition will require some formatting changes to facilitate clarity and access in an electronic format, and the "Instructions to Authors" section that will appear in the coming volume will also be revised. The next volume will also include an enhanced book review section, and the establishment of a recent and noteworthy collections feature that will allow rapid and efficient dissemination of new discoveries without requiring a full article.

These changes will make the Society's journal more relevant, accessible, and attractive to both contributors and readers. Stay tuned for the next issue in the coming months, and please send me your comments and suggestions. Doug Ladd, Missouriensis Editor dladd@tnc.org

Petal Pusher Editor's Note: Please be thoughtful of your volunteer editor and follow submission guidelines posted in Jan, Mar, May 2013. PLEASE ADD: Change plain text to *Italics* when using scientific nomenclature for any biological being. Editor does not appreciate spending hours to make format changes [font, size, spacing, style, page layout]. Editor thanks all who submit articles and reports for publication in MONPS Petal Pusher. Special thanks to those who submit articles and reports early and in requested format. This edition those people were Casey, Rex, and Ann. This kind of cooperation is a team effort to make our newsletter readable and interesting.

Go my Sons, burn your books. Buy yourself stout shoes.
Get away to the mountains, the valleys, the shores of the seas,
the deserts, and the deepest recesses of the Earth. In this way
and no other will you find true knowledge of things and their
properties.

Peter Severinus, 16th. century Dane, educator

BE photo



For Shopping, Please use Amazon Smile

The easiest way to support the Missouri Native Plant Society! Please consider using Amazon.com's charitable site to do your shopping. On your first visit to AmazonSmile (smile.amazon.com), you need to select a charitable organization to receive donations from eligible purchases before you begin shopping. Choose Missouri Native Plant Society Inc. Amazon remembers your selection, and then every eligible purchase you make at smile.amazon.com will result in a donation. Every dollar you spend on the site generates a half cent for us. They gave us \$58 last year. It doesn't seem like much, but every little bit helps, **and the money comes from Amazon, not you!** It is up to you to make the donation higher next year. Thanks for thinking about us.



And more information on our website

<https://monativeplants.org>

<https://monativeplantsociety.org>

St Louis

Submitted by Rex Hill, Chapter Representative

At our April meeting, in what is becoming an annual event, Dr. Kyra Krakos, Assistant Professor of Biology at Maryville University, and a Research Associate at the Missouri Botanical Garden, brought two of her students, Adam Rork whose titled talk was the **Stench of Science** and Adam Wilson. Mr. Rork talked about the flowering of the Corpse Plant (*Amorphophallus titanum*) at the Botanical Garden and the general public's interest in the event including late night visits to the Garden. Perhaps a way to interest more people in Botany. Mr. Wilson talked about his work on a **GIS Study of Plant Pollinators in the St. Louis Area**. He presented results that summarized threats to urban pollination such as fragmentation, competition from exotic and ornamental plants, and air and light pollution. He also presented conclusions that the size of the garden directly affects pollination success, and that it makes no difference whether the garden is located in a low income or affluent area of the city.

In May Dr. Christy Edwards, Assistant Scientist, Conservations Genetics Center for Conservation and Sustainable Development, Missouri Botanical Garden and Adjunct professor in Biology at Washington University gave a talk on the **Conservation genetic analysis of two threatened Missouri species** (*Geocarpon minimum*, *Physaria filiformis*) She presented her findings on the known populations of these two plants in the Midwest and their genetic diversity from one population to the next. She has been working with the US Fish and Wildlife Service in order to help them make recommendations on either delisting or to continue the Federal listing of these two rare and endangered species.

The chapter held two Saturday fieldtrips. On April 15, a fieldtrip to Little Lost Creek Conservation Area in Warren County followed up on Steve Turner's March presentation, and on May 6, a fieldtrip to Danville Glade NA in the Danville CA in Montgomery County was held to search for the prairie dandelion (*Nothcalais cuspidata*). Unfortunately, only plants with spent flowerheads were located.

The chapter had a booth at the annual spring plant sale at the Shaw Nature Reserve on Mother's Day weekend and it was quite successful. Not only did we talk to many attendees interested in native plants we managed to sell almost all of the MONPS t-shirt inventory which has been hanging around for some time. My thanks to my wife Martha, John Oliver, and Wayne and Nancy Clark all of whom spent both days at the booth.

By the time you read this, the latest Master Naturalist Class at Meramec Community College will have been held. It consisted of a classroom meeting on Tuesday, June 13 followed by two fieldtrips on Saturday June 17 & 24 at the park.

St Louis cont

The class was titled **Botanical Treasures of Don Robinson State Park** with Nels Holmberg, Ron Colatskie, and John Oliver assisted by Rick Gray and Steve Turner.

Speaking of Nels, if you have not seen it, he was the featured citizen conservationist on the back cover of the June issue of Missouri Conservationist magazine. Congratulations Nels!


Hawthorn *Submitted by Becky Erickson*

April was a very busy month for Hawthorn Chapter. We had a plant sale at MU's Bradford Farm 8 April and another sale at Columbia's Earth Day Fair 23 April. We talked to many people, sold many books, t-shirts and plants, brought in a couple-thousand dollars. Then 6 May we helped MPF with a sale at Columbia's BassPro where we donated 15% of our net proceeds to MPF.

Blazing Star Award was given to Glenn Pickett for several years of persistent work with CPS: mostly promoting and managing our educational grant program and helping with CPS Outdoor Classroom program. Lately he has put up a good fight against the aliens at the Stadium Roadside Native Planting. At his presentation, Glenn announced our new \$600 grant to a teacher to install a new Pollinator Garden to be installed this spring. The monthly lunches on 20 April and 18 May were attended by 12 and 7 members respectively. There was lively chatter around the table about butterflies, gardening, bird migration, chemicals, and upcoming activities.

We will be collaborating with The Columbia Ag Park is a joint effort between CCUA, Farmers Market, and Parks & Rec. Located by the ARC; will be open year round; will demonstrate native plants, and organic gardening.

The 8 May meeting program was given by Henry and Lorna Domke about the history of Prairie Garden Trust south of Fulton. After about 50 years of removing unwanted and alien vegetation, they have about 200 acres of several habitats: savanna, open woodland, prairie, several ponds, fence hedges, forest, shaded glade, creek and forested creek-bottom. They have built a beautiful structure for meetings and displays; have established trails and interpretive material for the newly initiated. Google Prairie Garden Trust www.prairiegardentrust.org to make a reservation for a visit. Most of the discussion was about the ongoing efforts against invasive aliens; we all have some and wanted to know their solution. The consensus seemed to be consistent surveys and appropriate chemical application is the only answer.

Osage Plains

Submitted by Casey Burks, Chapter Representative

April 23rd: 1:00pm we had a Field Trip at Wayne Morton's savannah by Osceola, MO.

Wayne works tirelessly to make improvements to this lovely area: prescribed burns, battling *Serecia lespedeza* [*Lespedeza cuneata*], other invasives, etc. and we get to enjoy his efforts. One of his great joys was to see a large patch of Indian paintbrush where there hadn't been any before the burns. On this Spring visit, emerging *Liatris* and various *Helianthus* were fun to try to identify before bloom but the beautiful and abundant birdsfoot violets gave us plenty of color photo ops.

April 25th 6:30pm at Clinton MDC building. Casey Burks gave the program on Monarch Migration, various types of Missouri Milkweed and other plants butterflies can use for nectar. During the discussion on larva, Elizabeth Middleton shared that she'd seen a TV documentary that showed Monarch larva moving off to the side after biting a milkweed vein so they don't drown in the rush of outflowing juice.

May 22nd 6:30pm we gathered at Ragland Prairie and Chapel View Prairie, which are next to each other, for an evening Field Trip, then had our meeting in the parking lot while eating Janetta Smith's awesome banana bread. It was so enjoyable to do a prairie walk in the evening. Long bracted indigo [*Baptisia bracteata*], Indian paintbrush [*Castilleja coccinea*] and *Penstemon* were still blooming, pale purple coneflower [*Echinacea pallida*] was starting to bloom, and Ragland is where there is an abundance of New Jersey Tea [*Ceanothus americana*]. Elizabeth Middleton chose orchard grass and fescue to show us what parts she uses when she is identifying grasses and again, showed us the different vein design in ashy sunflower [*Helianthus mollis*] vs. rosin weed [*Silphium integrifolium*] Other fun blooming plants were: tiny lobelia, corn salad, the purple-tipped-with-gold sensitive briar flowers [*Schrankia uncinata*], blue-eyed grass [*Sisyrinchium* sp.], leadplant [*Amorpha canescens*], wild roses, and a couple of common milkweed [*Asclepias amplexicaulis*]. A few years ago, Dorothy and Jim Harlan found a Mead's milkweed on Ragland Prairie but we haven't seen it since.

Empire

Steve Buback Chapter Representative

No report at this time.

Perennis

Submitted by Andrew Braun, Chapter Representative

No report at this time.

Kansas City

Submitted by John Richter, KC Chapter Pres

No Report at this time.

Southwest

Submitted by Michelle Bowe, Chapter Representative.

In April, Justin Thomas gave an excellent summary of his work combining ecology and taxonomy. We had a small, but enthusiastic crowd and viewed some excellent photographs of plants from around Missouri from his talk entitled, "Field Botany Applications for Better Ecological Management."



Most of our field trip plans were rained out, but a small contingent were able to attend the MPF-sponsored trip to Chute Ridge glade in Barry County in late May. It was a nice hike up and down a recently burned rocky, but wet glade filled with wildflowers including three different coneflowers in bloom: pale purple, glade and yellow.

<<< We also found Trelease's (or "glade") larkspur (*Delphinium treleasei*) and shaggy dwarf

<<< morning glory (*Evolvulus nutallianus*) — one of the few members of the morning glory family that is not actually a vine. Michelle Bowe photos.

Botanizing at Dalea Glade, Howell Co. B Erickson photo





Ozark Submitted by Liz Olson Chapter Representative.

On April 18, chapter president Susan Farrington gave a presentation on the characteristic summer-blooming Ozark plants to look for in the coming months. This was a follow-up to our March presentation on spring-blooming Ozark native plants. This mini-series was well-attended and a great way to kick off the season.

We held our annual spring field trip May 16. We went to the Rotary Club Nature Park in Mountain View. Our small group enjoyed walking the trails and admired the woodland and prairie plants on a beautiful spring evening. Some of the highlights in bloom were foxglove beard tongue (*Penstemon digitalis*), Indian paintbrush (*Castilleja coccinea*), Columbine (*Aquilegia canadensis*), cream wild Indigo (*Baptisia bracteata*), and golden Alexander (*Zizia aurea*).



LINK IN!

Share with friends and neighbors

PLEASE OFFER YOUR SUGGESTIONS!!

LINK IN on NATIVARS

Nativars, cultivars of native plants, are becoming increasingly popular and are marketed by nurseries around the country. It is important to know more about them when planning your landscaping

If you are new to gardening with natives and flummoxed by all the choices on the market, these links might help to steer you back to the real thing for ALLOT more reasons than just decorations. It is bad enough to give our necessary wildlife fractured habitats. Let's not offer them fake food. We can't live off Twinkies and Cheeze-whiz and neither can they. If you want to go to the trouble to install or enlarge your native flower area, PLEASE get plants and seed derived from wild stock. If in doubt – ASK!

Buy from a GrowNative! Member [<http://grownative.org/resource-guide>] Usually the smaller operations have local source plants and seeds. Or from your chapter members who know how to propagate wild plants.

This link is a detailed proposal for Mt. Cuba [a botanical garden in DE <http://mtcubacenter.org/>] by Dr. Deborah Delaney, Asst Prof; U of Delaware; Entomology and Wildlife Ecol Dept. Newark, DE This paper proves thru analysis from MU that nutrition for bees is far superior in wild native flowers than the meager fair they get from nativars. <https://d2vsp3qmody48p.cloudfront.net/wp-content/uploads/sites/5/2014/06/Pages-Mt-Cuba-Delaney.pdf> .

Read about Ecotype and Nativar guidelines <http://www.wildones.org/about-us-2/wild-ones-position-statements/>

See also <http://www.ecobeneficial.com/2015/10/the-nativar-conundrum-new-research-on-natives-vs-native-cultivars-with-dr-doug-tallamy/>



BE A CITIZEN SCIENTIST!!

Many, many retired and people with interest in nature supply data to several organizations needing data from across the country and around the world. I won't supply links here because it is so easy to Google names.

Bud Burst is a database of DATES of perennial emergence, buds, flowers, seedset.

Cornell Ornithology Lab gives several dates around the calendar when you can submit bird counts, just in your back yard or on vacation trips.

Monarch Watch and **Missourians for Monarchs** both need data points for wild and planted milkweeds, prairie plantings and wild nectar areas; then they need monarch sightings in all stages of development.



Missouri Native Plant Society: our own website <http://monativeplants.org/>

Birding Trails Website from Becky Erickson Just because it says "Birding Trail" doesn't mean that's all it is. Just because you go into the fields to find birds, doesn't mean you can't assess the landscape and practice some plant identification; or vice versa. There is a lot of excellent information on this site. Use it; share it; put it on your Facebook page. Open it up; talk it up. <http://greatmissouribirdingtrail.com/Wordpress/birding-trails/>

Monarch Larva Monitoring Project video www.mlmp.org

Missourians for Monarchs <http://missouriansformonarchs.blogspot.com/>

Xerces Society: nfp-ngo for invertebrate conservation <http://www.xerces.org/> <http://www.pollinator.org/>

Backyard biodiversity to replace wild areas by Tallamy <http://www.americanforests.org/magazine/article/backyard-biodiversity/>

Linda Hezel's organic farm emphasizing biodiversity to maximize production. <http://www.prairiebirthdayfarm.com/learning/resources.html> Naturalist's blog on the wild lands of southern MO <http://allisonjvaughn.blogspot.com/>

Naturalist's blog on a native garden in the suburbs <http://nadiasyard.com/>

WildOnes! Website full of articles on native habitat restoration <http://www.wildones.org/>

FROM CASEY'S KITCHEN

Casey Burks, Osage Chapter

Chanterelle Pizza

Ed. note: This article is most timely since chanterelles pop up after several days of rain during July and August. Never gather all you see. Leave a few small ones to spread spores.



I have only seen a handful of morels in our woods but, in June and July, I love to go hunting for chanterelles, a vase mushroom. These little golden beauties have the same 4 star rating as morels and most years they are

bountiful. Be sure these yellow/orange misshapen morsels are growing from soil; those growing from wood are poison. They can be found at the base of slopes near a draw in the woods. I sauté them in butter and freeze them in pint bags. My husband, who usually turns his nose up at my edible gatherings, often calls for me to get a bag of chanterelles for dishes he is preparing.

Omelets are divine.

Chanterelle-wine sauce over baked chicken is to die for. One of our favorite dishes is pizza with chanterelles.

To make a pizza first, place thick slices of



sourdough bread on a baking sheet, then brush tops and bottoms with generous amounts of olive oil. Next comes tomato sauce, chunks of cooked chicken or fried burger, chopped chanterelles, then top with

mozzarella. Bake in a 400 degree oven approximately 10-12 minutes till cheese is slightly browned.

Savor and Enjoy!

MORE LINKS!

Article on the effects of neonics on insects in Sept 2015 Wild Ones! Journal

<http://wildones.org/Neonics.pdf>

Linda Hezel strongly suggests reading the article on page 4. This explains how virgin land is tilled to make organic farms when they should be preserved.

<http://www.cornucopia.org/wp-content/uploads/2016/06/Summer2016-Cultivator-Web.pdf>

Paula Peters found a great website www.gardenswithwings.com. As she says, "It has a place to enter your zip-code to get a list of food plants to plant for the butterflies in your area, and it has lots of other handy information too. "This is just in time for Spring; they need food all summer and fall, too—enjoy!"

WREN SONG <http://nativeplantwildlifegarden.com/> Blog on native gardens and ecology

In response to those who requested information on weed control, particularly of invasives, the following download may provide some assistance;

https://www.fs.fed.us/foresthealth/technology/pdfs/FHTE-2016-04_Biocontrol_Field_Guide.pdf

There is a guide to plants supporting monarch Butterflies, *Important Plants of the Monarch Butterfly (Danaus plexippus)* available for download at:

<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/plants/animals/pollinate/?cid=nrcseprd402207>

Search for USDA monarch butterfly initiative. Try to get the Midwest edition (179 pages in pdf form) not the southern great plains one. There are very good color photographs of plants.

Dalea gattingeri from Dalea Glade in Howell CO



Dalea gattingeri
Flora of MO
Vol3 P48.
So rare = no illustration
<<< Habit
BERickson

Flower portrait of *Dalea g.* >>
by CBurks

Grows flat on rock or cherty soil similar to a carpet weed. Purple flower cluster and needle-like leaves similar to *Dalea purpurea* but more robust.



Chapter Calendars

Hawthorn *from Becky Erickson*

Chapter meetings held on odd-numbered months on the second Monday at Unitarian Church, 2615 Shepard Blvd., Columbia. Third Thursday lunch at Uprise Bakery [RagTag] 10 Hitt St, Columbia continues to be well attended by members for informal discussions about native plants and environmental issues. See www.columbianativeplants.org for postings of newsletters and activity details. For folks interested in hiking and wildflower sightings around the state, see chapter newsletter on the website for details. Otherwise you are encouraged to participate in outings with other MONPS chapters and MPF. We will email chapter members interested in outings.

15 June Thurs – 11:30am Lunch at Uprise Bakery. 10 Hitt St, just south of Broadway. Good food and informal conversation about gardening, chemicals, insects, travel, cooking, and a little planning for the next month.

10 July Mon – 7pm Bimonthly Meeting at Unitarian Church. Topic TBA

5 Aug Sat – 1pm Butterfly Walk at PGT. For reservation and directions www.prairiegardentrust.org

17 Aug Thurs – 11:30 Lunch at Uprise Bakery.

11 Sept Mon – 7pm Bimonthly Meeting at Unitarian Church. Topic TBA.

21 Sept Thurs – 11:30 Lunch at Uprise Bakery.

Osage Plains *from Casey Burks*

This year we will be changing our meeting location to the MDC building 2010 South Second St. in Clinton
Regularly scheduled meetings are held the 4th Monday of the month at 6:30 pm. However, no meetings are held during the months of August, December or January.

Activities are open to the public and our purpose is to enjoy learning about and sharing information about native plants.

Current information available from President Elizabeth Middleton Elizabeth.Middleton@MDC.gov or Chapter Representative Casey Burks mobugwoman@gmail.com.

Field Trip coordinators are

Bernie Henehan berniehenehan@yahoo.com

and Dan Henehan danhenehan@embarqmail.com

26 June: 6:00pm Meet at Conrad-Neuenschwander prairie for combo Field Trip and Meeting.

24 July: Meeting TBA

No meeting scheduled in August.



Depford pink
*Dianthus
armeria*

An annual carnation, is from Europe. Considered non-invasive, naturalized. CBurks photo

Upcoming Events

Kansas City *from John C. Richter, Chapter President.*

Meetings are usually held at MDC Discovery Center 7 pm, 1st Tuesday of odd-numbered months. No meeting in July. <https://nature.mdc.mo.gov/discover-nature/places/gorman-anita-b-conservation-discovery-center> : mid-town on Troost between Cleaver and Volker Blvds.

Kansas City Chapter 2017 Calendar

Submitted by John C. Richter, MONPS KC Chapter Pres

For questions about upcoming field trips contact the field trip leader, otherwise contact John Richter via e-mail: RichterJC@bv.com, or cell phone 816-519-8201. Please RSVP with the field trip leader or John Richter for all field trips. We use RSVP information to plan car pool logistics and to determine if a field trip will have any attendance. This is important for making decisions based on severe weather, etc. Our events are open to all who would like to participate, members and non-members alike; please bring a friend.

17 June – Monkey Mountain Conservation Area, Holt County, Missouri. This area may represent some moderate to steep woodlands and may be strenuous. This site was chosen as we can walk anywhere we want to and do some real exploring. Bring lots of food and water. We plan to car pool to this site; car pool information can be worked out with RSVP. Plan to meet at the car pool location at 8:00 am Saturday morning.

July or August: Canoeing anyone? Location TBD. If interested please contact John Richter RichterJC@bv.com, cell phone 816-519-8201

21 Aug - Total Solar Eclipse, Ray County, Missouri. If you are interested in viewing this from the epicenter of the totality path, John Richter owns two parcels of property, and the centerline of the eclipse path runs through each of them. For information contact John Richter RichterJC@bv.com, cell phone 816-519-8201.

5 Sept 7:00 PM, MDC Discovery Center: Chapter Meeting - Meeting activity TBD.

7 Oct – Maple Woods woodland walk. Easy walking on a path, enjoy the fall colors and late blooming flowers. If interested please RSVP with Hilary Haley hhaley@tnc.org.

7 Nov 7:00 PM, MDC Discovery Center: Chapter Meeting - Meeting activity TBD.

Empire Prairie *from Steve Buback:*

Nothing submitted at this time.

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**Ozark** from Liz Olson

The Ozark Chapter meets at 6:30 pm on the third Tuesday of each month MDC, Ozark Regional Office, 551 Joe Jones Blvd, West Plains, MO 65775.

No meetings Dec and Jan. For more information, contact chapter president Susan Farrington at 417-255- 9561. We take suggestions for speakers at our meetings.

June, July, and Aug – Plant ID nights: bring samples of plants or clear photos for discussion.

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Southwest from Michelle Bowe

Meetings will be at different locations in Spgfld, 4th Tuesday, 6pm. Refer to each date for location In case of bad weather, watch Facebook for cancellations or call ahead of time and we'll call back with more information. Michelle Bowe Mbowe@MissouriState.edu 417-836-6189

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**Perennis** from Andrew Braun

Watch for announcements by e-mail, Facebook, and the MONPS website.- [www.monativeplantsociety.org](http://www.monativeplantsociety.org) Be sure your email is registered with Andrew, your Chapter Rep, and with Becky = PP editor, and with Ann Early = membership Chair.

Field trips and other events for the Perennis chapter are currently being planned. Watch for announcements by e-mail, the MONPS website, and the MONPS Facebook page. As always, ideas are welcome! Contact Andrew for updates on activities [apbraun1s@gmail.com](mailto:apbraun1s@gmail.com)



*Schrankia uncinata* sensitive briar at Tingler Prairie BEphoto

~~~~~  
St Louis from Rex Hill

Chapter meetings are held on the fourth Wednesday of the month at the Sunset Hills Community Center, 3939 South Lindbergh Blvd., Sunset Hills, MO. Google Map: <http://goo.gl/maps/K3PR>

All Friends and newcomers are welcome at meetings. Look to the Saint Louis Chapter page on the MONPS website at for any announcements. <http://monativeplants.org/chapters/saint-louis/>

28 June – 6:00 PM – This is the month for our annual evening wildflower walk, to be followed by dinner for those that wish to retire to a local restaurant after the walk. Watch Wayne Clark’s Emails and otherwise keep your ear to the ground for the location of this walk.

26 July – 7:30 PM – Aaron Floden the new Midwest and Missouri botanist at the Missouri Botanical Garden will introduce himself and talk about his background and his plans for the Flora of Missouri Project

23 August – 7:30 PM – Chris Benda (President of the Illinois Native Plant Society) will make a presentation titled **Hidden Natural Treasures – A Selection of Southern Illinois Natural Areas**

~~~~~  
**Please Build Bee Habitat.**

Wedge Watkins of the Columbia FWS office sent this link to me. <http://extension.usu.edu/files/publications/factsheet/ENT-175-15.pdf> Wedge has been part of the prairie corridor bee survey which has helped to discover the rapid decline in all bee populations. He wants to promote the use of bee habitat. Admittedly, the document is written for western states, but all the practices apply here. Please consider planting a broad diversity of native flowers, leaving messy, unsterile places on your property, and include some artificial enhancements so bees can find safe habitat. It is no different from putting up bird houses and feeders.

*Tephrosia virginiana*  
Goat’s rue. When blooms are fresh, they sport brilliant pink and muted yellow colors. BE photo



## What's in a Name?

Submitted by Liz Olson

Have you ever wondered why plants are given their particular scientific names? There was a fun discussion on a Facebook group recently, about species epithets that seem to be a description of the botanist's attitude toward the plant, as opposed to simply an adjective describing the features of the plant. Some examples are:

- perplexum = perplexing, confusing; as in *Desmodium perplexum* (perplexed tick trefoil)
- paradoxa = paradoxical, strange; as in *Echinacea paradoxa* (yellow coneflower)
- exasperatus = irritate intensely, infuriating; as in *Helianthus exasperatus* (an unresolved name)
- dubia and ambiguus = doubtful; as in *Gymnopogon ambiguus* (beard grass) and *Lindernia dubia* (false pimpernel)
- incertus = uncertain; as in *Cenchrus incertus* (an unresolved name)

These Latin translations give insight into how difficult taxonomy can be, even for the experts!

The naming of the genus *Fernaldia* is also an interesting story. Robert E. Woodson was a botanist at the MO Botanical Garden and Washington University. Woodson named the Central American genus *Fernaldia* in the family Apocynaceae. The genus was named for Meritt Lyndon Fernald, an American botanist in the early 20<sup>th</sup> century who wrote the 8<sup>th</sup> edition of Gray's Manual of Botany. *Fernaldia asperoglottis* means sharp-tongued, meant to describe Fernald, and *Fernaldia brachypharynx* means thick-necked, also referring to Fernald. I sure hate to think of these botanical giants feuding; did Woodson not like Fernald, or was this an inside joke between friends?

Ed note: all scientific names can be translated with a little book **Dictionary of Word Roots and Combining Forms 1960 by Donald J. Borror [he also wrote the insect text book] Mayfield Publishing Co, Mountain View CA. Lib of Cong # 60-15564.** I had a terrible struggle with remembering names until I could translate them.



## PHOTOS FROM FIELD TRIPS NEAR WEST PLAINS



*Monarda fistulosa* at Tingler Prairie [BE]



*Penstemon tubaeformis*  
at Tingler Prairie [BE]  
<<<



*Rosa setigera* at Tingler Prairie [BE]  
>>>



*Verbena hastata* >>>  
at Tingler Prairie [CB]

<<< Fringed orchid at  
Tingler prairie [CB]



Rick helps Eli learn  
about Dalea Glade [DT]  
<<<



Above Justin, Claire, John, and Steve enjoyed the overcast day and fragrant calamint while botanizing at Dalea Glade [DT]

Calamint, *Satureja arkansana* carpeted the glade  
Photo below [BE]



Hopewell Prairie Fen at White Ranch CA [BE]



Pale coneflower, *Echinacea pallida* graced much of Tingler Prairie [BE]



We occasionally found exquisite petunias *Ruellia humilis* at Tingler Prairie [BE]

*Tradescantia ohioensis* spiderwort blooms persisted into the overcast afternoon at Tingler Prairie [BE] below





Missouri Native Plant Society  
 PO BOX 440353  
 St Louis, MO 63144-4353  
[www.monativeplantsociety.org](http://www.monativeplantsociety.org)  
[www.monativeplants.org](http://www.monativeplants.org)



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**"A thing is right when it tends to preserve the integrity, stability, and beauty of the biotic community. It is wrong when it tends otherwise." Aldo Leopold**

**PRESIDENT**

John Oliver  
 4861 Gatesbury Dr  
 St. Louis, MO 63128  
 314-487-5924  
[joliver02@earthlink.net](mailto:joliver02@earthlink.net)

**VICE PRESIDENT**

Dana Thomas  
 1530E Farm Rd 96  
 Springfield MO 65803  
[mail@botanytraining.com](mailto:mail@botanytraining.com)

**SECRETARY**

Malissa Briggler  
 10297 CR 371  
 New Bloomfield, MO 65063  
 573-301-0082  
[Malissa.Briggler@mdc.mo.gov](mailto:Malissa.Briggler@mdc.mo.gov)

**TREASURER**

Bob Siemer  
 74 Conway Cove Drive  
 Chesterfield, MO 63017  
 636-537-2466  
[aec623@prodigy.net](mailto:aec623@prodigy.net)

**MEMBERSHIP**

Ann Earley  
 P.O. Box 440353  
 St. Louis, MO 63144-4353  
 314-963-0103  
[aec623@prodigy.net](mailto:aec623@prodigy.net)

**PAST PRESIDENT**

Paul McKenzie  
 2311 Grandview Circle  
 Columbia, MO 65203  
 573-445-3019  
[paulbeckymo@mchsi.com](mailto:paulbeckymo@mchsi.com)

**BOARD MEMBERS**

Justin Thomas ('14-'17)  
 1530E Farm Rd 96  
 Springfield MO 65803  
[jthomas@botanytraining.com](mailto:jthomas@botanytraining.com)

Mike Skinner ('16-'17)  
 167 South Peachtree  
 South Peachtree  
 Republic, MO 65738  
 417-268-5704  
[Mike.Skinner6680@gmail.com](mailto:Mike.Skinner6680@gmail.com)

Bruce Schuette ('16-'19)  
 678 St. Route 147  
 Troy, MO 63379  
 636-528-7247 (w)  
[basch@centurytel.net](mailto:basch@centurytel.net)

Rick Gray ('15-'18)  
 6 Montauk Court  
 St Louis MO 63146  
 314-9936088  
[rgray@seilerinst.com](mailto:rgray@seilerinst.com)

Steve Buback ('15-'18)  
 MDC NW Regional Office  
 701 James McCarthy Dr  
 St. Joseph, MO 64507  
 816-271-3111  
[Steve.Buback@mdc.mo.gov](mailto:Steve.Buback@mdc.mo.gov)

Ron Colatskie ('16-'19)

Ronald.Colatskie@dnr.mo.gov

**MISSOURIENSIS**

**EDITOR**  
**Doug Ladd**  
 The Nature Conservancy  
 2800 S. Brentwood Blvd.  
 St. Louis, MO 63144  
 314-968-1105 (w)  
[dladd@tnc.org](mailto:dladd@tnc.org)

**PETAL PUSHER EDITOR**

Becky Erickson  
 PO BOX 496  
 Ashland MO 65010  
 573-657-2314  
[beckyerick711@centurylink.net](mailto:beckyerick711@centurylink.net)

**DISTRIBUTION MANAGER**

Leslie Limberg  
 636-398-8809  
[LLlimberg@aol.com](mailto:LLlimberg@aol.com)  
 Assistants: Emily Horton  
 And Joan Featherston

**EDITORIAL COMMITTEE**

Lisa Hooper  
 Jay Raveill and Tim Smith

**ARCHIVES**

Rex Hill  
 4 Grantwood Lane  
 St. Louis, MO 63123  
 314-849-1464  
[RexL.Hill@charter.net](mailto:RexL.Hill@charter.net)

**WEBMASTER**

Brian Edmond  
 8878 N FR 75  
 Walnut Grove, MO 65770  
 417-742-9438  
[brianedmond@gmail.com](mailto:brianedmond@gmail.com)

<https://monativeplants.org>  
<https://monativeplantsociety.org>

**PERENNIS**

Andrew Braun  
[apbraun1s@gmail.com](mailto:apbraun1s@gmail.com)

**EMPIRE PRAIRIE**

Steve Buback [also on Board]

**OZARKS**

Liz Olson  
 MDC Ozark Regional Office  
 551 Joe Jones Blvd  
 West Plains, MO 65775  
 417-255-9561 Ext. 4736 (w)  
[Elizabeth.Olson@mdc.mo.gov](mailto:Elizabeth.Olson@mdc.mo.gov)

**OSAGE PLAINS**

Casey Burks  
 914 SE Hwy ZZ  
 Deepwater, MO 64740  
 515-291-1550  
[mobugwoman@gmail.com](mailto:mobugwoman@gmail.com)

**HAWTHORN**

John George  
  
 Columbia, MO 65102  
 573-777-0394  
[John.George@mdc.mo.gov](mailto:John.George@mdc.mo.gov)

**ST. LOUIS**

Rex Hill  
 4 Grantwood Lane  
 St. Louis, MO 63123  
 314-849-1464  
[RexL.Hill@charter.net](mailto:RexL.Hill@charter.net)

**ENVIRONMENT & EDUCATION**

John Oliver [also President]

**CHAPTER REPRESENTATIVES**

**SOUTHWEST**  
 Michelle Bowe  
 901 S. National  
 Springfield MO 65897  
 417-836-6189  
[Mbowe@MissouriState.edu](mailto:Mbowe@MissouriState.edu)

**KANSAS CITY**

Hilary Haley  
 204 South 15<sup>th</sup> Street  
 Bethany, MO 64424  
 (660) 867-3866  
[hhaley@tnc.org](mailto:hhaley@tnc.org)