

January – February 2018 NEWSLETTER OF THE MISSOURI NATIVE PLANT SOCIETY Volume 33 No.1

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

**ANNOUNCEMENTS**

**MARK YOUR CALENDARS: ATTEND THE 2018 MONPS FIELD TRIPS!**

*Organized by Dana Thomas Vice President*

Dates and general locations for the 2018 field trips are finalized below and we'd love to see you there! Bring your family and friends. Please note that the specific field sites for each trip will definitely change and narrow as planning progresses. The field sites shown below are those that were suggested as possibilities during the 2017 winter board meeting and are presented here to whet your appetite for types of sites in the regions. Field trips generally consist of a Friday afternoon excursion, followed by a Friday evening presentation on the ecology of the area, a full-day field trip on Saturday to one or more locales, and a Sunday morning field trip. Attendees are welcome to join the expeditions for all three days, or to just come for the portion/s that fit your schedule. For detailed logistics about each trip, keep an eye on upcoming issues of the Petal Pusher, the [MONPS Website](#) and our [Facebook page](#).

**SPRING: April 27-29, 2018. MARION, IL** - Possible Sites: Bell Smith Spring, Larue Pine Hills, Trillium Trail. Field trips will be led by Illinois plant expert, Christopher David Benda.

**SUMMER: June 8-10, 2018. ROLLA, MO** - Possible Sites: Solomon Hollow, Western Star Flatwoods, Clifty Creek CA, Spring Creek Gap CA, Woodson K. Woods Memorial CA, Beaver Creek CA, Bohigian CA, “Big Sink”, St. James City Park glades.

**FALL: September 14-16, 2018. SEDALIA, MO** - Possible Sites: Paintbrush Prairie, Goodnight-Henry Prairie, Gayfeather Prairie, Marker Prairie, Drovers Prairie, and others.

**WINTER: December 1, 2018. COLUMBIA, MO**- Winter Board Meeting is booked at the MDC Regional office in Columbia no field trips associated with this meeting.



Eli having a great time on a MONPS field trip [DT photo]

**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.

**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 **Rex, Pam, Liz, Michelle, Casey, Malissa, and Ann.** This kind of cooperation is a team effort to make our newsletter readable and interesting.



And more information on our website [www.monativeplants.org](http://www.monativeplants.org) [www.monativeplantsociety.org](http://www.monativeplantsociety.org)

## 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/>

### St. Louis

Marilyn Heller, Manchester  
Dave Lemoine, Manchester

### Hawthorn

Helena Vega, Columbia  
Karen Albright, Ashland  
Mike Currier, Columbia  
Cj Lexow Columbia  
Val Wedel, Columbia

### Paradoxa

Amber & Kyle Steele, Rolla  
Phyllis Murphy, Rolla  
Tina Heusler, Rolla

### Osage Plains

Dean Scott, Clinton  
Veronica Mecko, Lamoni, IA

### Kansas City

Suzanne Crandall, KC

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.

### State Level Membership

We hope these new members find a connection with a chapter nearby.  
Charles & Charlotte Skorina possibly with Hawthorn or Paradoxa

### For new members

We are pleased to announce the latest issue of our journal, *Missouriensis*. As previously announced, *Missouriensis* will henceforth be published as an online, electronic journal with color pictures and other extras only possible with this format. The issue will soon be available on our website, [monativeplants.org](http://monativeplants.org) as links to the separate articles. Doug Ladd editor

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



Botanizing  
on glades  
B E photos



## Missouri Native Plant Society Awards: Nominations Due May 15

The MONPS Awards Committee seeks nominations of people who have supported the preservation of Missouri's flora and have helped MONPS beyond an average effort. MONPS offers six awards: **Write up your nomination and send asap.**

- 1) Erna Eisendrath Memorial Education Award, recognizing individuals who, through teaching, writing, or other activity have conveyed to others a significant appreciation and knowledge of Missouri's native flora.
- 2) Arthur Christ Research Award, recognizing an individual's significant contribution in furthering the knowledge of Missouri flora.
- 3) Plant Stewardship Award, recognizing an individual or organization for the preservation of important elements of Missouri's flora through purchase, registry, and/or management practice.
- 4) The John E. Wylie Award, recognizing individuals who have provided exceptional service to the Society.
- 5) Plant Conservation Award, recognizing an individual or organization for outstanding contributions to the conservation or preservation of native plants or plant communities in Missouri. This award differs from the Plant Stewardship Award in that it is not tied to direct acquisition or management of tracts of land, but instead may recognize various types of outstanding achievements or efforts, such as conservation planning, advocacy, or new ways of looking at old problems.
- 6) Julian A. Steyermark Award, the Society's highest award, given to an individual who has made outstanding contributions to any and all aspects of Missouri botany.

**The deadline for nominations is May 15.** Nominations should contain the full name of the nominee and the name of the person making the nomination, and they should set forth the contributions of the individual or organization that merits recognition. Award recipients need not be members of MONPS.

Please submit nominations to Awards Committee Chairwoman, Michelle Bowe.

Michelle Bowe  
Department of Biology  
Missouri State University  
901 S National Ave  
Springfield MO 65897  
[mbowe@missouristate.edu](mailto:mbowe@missouristate.edu)

Offer from GY in TX

I thought I would pass along an interesting tidbit, in case you would like to include it in a future Petal Pusher. The SIU Press recently has made available the 14 published parts of Robert Mohlenbroack's *Illustrated Flora of Illinois* as free pdf downloads. These are available at:

[http://opensiuc.lib.siu.edu/siupress\\_flora\\_of\\_illinois/](http://opensiuc.lib.siu.edu/siupress_flora_of_illinois/)

### Minutes of the Missouri Native Plant Society Board Meeting Ava, MO – 23 September 2017

*Respectfully submitted by Malissa Briggler*

The meeting was called to order at 7:00 PM and a quorum was present. The minutes of the last board meeting (July 8, 2017, Kahoka) were read and one correction was noted by Becky that there was not a quorum present at the last meeting. Becky also pointed out a few minor edits. The corrected minutes were approved. Dana Thomas volunteered to be the assignment recorder.

**Treasurer's Report (Bob Siemer)** Membership has increased and well ahead of our budget. Some expenses are still yet to be paid, primarily postage and *Missouriensis* fees. Doug assured the Board that we will not have any expense for *Missouriensis*, however there is \$1000 budgeted for the publication. There have been fewer contributions to the Hudson Award but there is still enough money for two more years. John mentioned that perhaps we could encourage people to contribute by asking for contributions more frequently, such as a write-up in the Petal Pusher or Facebook. Perhaps asking in early 2018 would also be helpful since it might be considered as a tax write-off for some.

Chapter dues: In the past, chapter representatives have received checks but Bob now has a credit union send checks. If it is more convenient for someone besides the chapter representative to receive the check for chapter dues, just let Bob know. Jerry pointed out that the checks people are receiving look a bit like junk mail.

ATTENDING:  
John Oliver,  
Bruce Schuette,  
Bob Seimer,  
Ann Early,  
Casey Burks,  
Doug Ladd,  
Dana Thomas,  
Rex Hill,  
Michelle Bowe,  
Mike Skinner,  
Becky Erickson,  
Malissa Briggler,  
John George,  
Wayne Morton,  
Jan Smith,  
Theresa Cline,  
Justin Thomas,  
Ron Colatski,  
Andrew Braun,  
Pam & Jerry  
Barnabee

## Publications and Media

**PETAL PUSHER** Becky Erickson would like to have better accounts of our field trips. Not many people have responded to this request in the past. She also will plan to have a tribute to Pat Harris included in the next petal pusher.

**Missouriensis** (Doug Ladd) The final version of the next issue was sent to Brian Edmond and should be linked to the website soon.

Official publication will not be until September 30<sup>th</sup>. Doug will also proceed with attaining an ISSN number. Doug is trying to increase readership by improving access from various search engines. Hopefully another volume will go out next year and will put the publication on schedule for a volume each year. Doug also informed the Board that Cindy Pessoni has done a lot of work on editing for *Missouriensis*. Members signed a 'thank you' card to express appreciation for her hard work and contribution.

**WEBSITE AND SOCIAL MEDIA** John Oliver [JO] encouraged everyone to continue using the website to announce event information and to use Facebook to direct people to our website. Brian Edmond is working on the "Ask a question" tab on the website. He will need volunteers and e-mail addresses for people that will be willing to accept and respond to submitted questions. The questions submitted will be forwarded to an e-mail address. Most plant id questions go on Facebook. Questions from the website would likely be more related to the society and website or PayPal issues.

**FACEBOOK** JO expressed gratitude that we have several new administrators to help with Facebook operation. Dana suggested that it might be a good time to put up a new blurb to encourage people on Facebook to join.

**MISSOURI PLANTS WEBSITE** JO There have been no new developments but interest and discussion with staff at MBG is ongoing regarding potential contributions by MNPS. John, Rex, and Steve Turner will try to meet with Aaron Floden about moving forward.

## Committees and Taskforces

**MEMBERSHIP** (Ann Earley) There are 16 new members since the last meeting and more than 400 current members. Chapter reps will be sent a list of members that have not yet renewed their membership

**ARCHIVES** (Rex Hill) Archiving efforts continue without problems.

**HUDSON AWARD COMMITTEE** (Paul McKenzie) The website needs to be updated to list the most recent recipients of the award.

The announcement for the award on the website is dated 2014 and therefore needs to be updated. Rex suggested that the announcement doesn't need to be on the website all the time. Perhaps it should be taken down once the award has been given, then put back up when we want to announce the next award. However, it should be posted at this time (with the correct year) since the committee is currently accepting nominations. It was decided to fix the year and leave the announcement on the website for now but take it down after the award is given.

## Society Business

**WINTER MEETING** Board members need to be thinking about potential places to suggest for 2018 meeting and field trip locations. Possible meeting locations may include Illinois with the ILNPS. Chris Benda has expressed interest in having us there and may be willing to give a presentation. There is also a new chapter in Rolla which would be a good reason to plan a meeting and field trips in that part of the state.

**BOARD MEMBER TERMS** listed in Petal Pusher: A few of the member terms listed need to be updated with correct years.

**MO INVASIVE PLANT TASK FORCE (MOIP)** Several members were asked to provide input for a plant ranking effort by MOIP.

Malissa and Bruce provided some background information on the request because there was some confusion about the request.

**BROCHURES** Ann and Rex have brochures if anyone needs any. JO brought up the need to order new brochures. Color brochures are preferred. KS and IL have some good examples.

**ROADSIDE POSTERS** Malissa has more posters for chapter reps if needed.

**MEREMEC CLASSES** There has been good feedback regarding the NYC (Darn Yellow Composites) class.

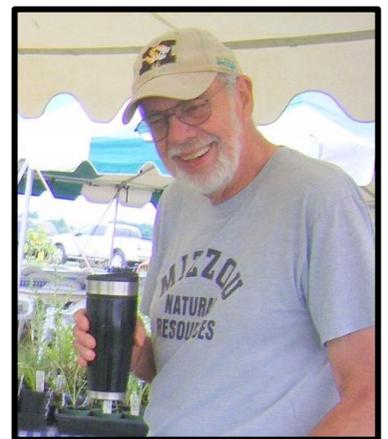
Dana read the assignments and the meeting was adjourned.



## Remembering John 'Rusty' White From Becky Erickson

John 'Rusty' White was a member of the KC Chapter and later a member of Hawthorn. His tall lanky frame and broad smile was always a welcome sight as his demeanor was always pleasant and his willingness was always to help. He and I did the stint to the beautiful Joplin prairies the May meeting just before the big tornado. And we did several moseys together locally. John worked with Robin Kennedy in the MU Herbarium. John knew a lot about the herbarium history and wrote several articles about early botanists for the Hawthorn newsletter. John truly enjoyed a mosey in a wild area. He was devastated when his health literally tripped up that activity. I spoke with him casually a couple of months before his death. He didn't let on about his illness.

**From Vanessa Melton:** John White had been a member of our Chapter since 2002 and until recent years he was a familiar face at Hawthorn Chapter booths. One of the few members with a truck and willing to tote tables back and forth he was much appreciated by everyone. He passed away November 2016 after a short battle with pancreatic cancer, but unfortunately news didn't reach us until last month. Health issues and other obligations had kept him from attending meetings and events the last few years, and unfortunately those of us who knew him well lost touch with him. He will be greatly missed by everyone especially those who worked booths with him several years in a row. Thanks to Paula Peters for doing the research for this article.



*John Russel White VMelton photo*

**Paradoxa**

*Submitted by Pam Barnabee, chapter president;*

Our final chapter meeting of 2017 was held at Bray Conservation Area on October 28. Members brought a variety of seeds and seed-related items for show-and-tell and exchange. From Linda, who has been studying the aster and goldenrod species growing on her property, a selection of plants that helped us learn how to identify each one. From Susan, a set of 6 strainers with graduated mesh sizes designed for gold panning, but perfect for cleaning seed; a gardening apron with a large pouch for holding multiple paper bags and pockets for clippers and other seed-collecting tools; and a copy of the Seedling ID Guide, available from MDC, that has photos of seeds in the back. Pam brought the distinctive seedpods and seeds from rattlesnake master, wild senna, Illinois bundleflower, and wingstem. Winnie brought bagged and labeled seeds of blazing star, poppy mallow, and more, along with handouts describing their requirements and characteristics - a practice we all need to emulate next year! Karen showed us a good method for starting plants with long tap roots: by using a length of PVC pipe set in a cat food or tuna fish can as your potting container, you can remove the can at transplanting time with minimal disturbance to the roots.

Despite the blustery weather, we concluded the meeting by walking the full Bray Loop trail, helping each other identify the plants we saw along the way. Even though the blooms were long gone, there was plenty to see. We even collected a specimen of *Asplenium platyneuron* (ebony spleenwort) for the Bray herbarium.



Kathy and Morgan working on herbarium specimens *PB Photo*

Our Bray herbarium project group has moved from collecting and drying plant specimens to mounting them. With excitement and a tinge of apprehension, Morgan and Kathy transferred the first of the specimens to a tray of diluted glue and then onto the mounting paper while the rest of the crew looked on. We're so pleased with the results!

Several of our members attended the Seed Collection & Propagation workshop in Columbia on 5 Nov. Thank you, Becky - we learned a lot and had a great time!

**Osage Plains**

*Submitted by Casey Burks, Chapter Representative*

October 23<sup>rd</sup> 6:00pm Clinton MDC Building. We enjoyed a program on propagating wild plants given by guest speaker Becky Erickson. She graciously shared her tips on everything from scarification (use medium sandpaper on a cookie sheet) to the hot water treatment for *Baptista* seeds and how to do a pressure test to see if a seed has germ. We learned it's not a good practice to put seeds in the freezer as any moisture could cause them to split. They should be dry and kept in moisture proof containers in the refrigerator.

Rather than peat moss, Becky recommends Sta-Green flower and vegetable soil for growing seeds in quart containers (poke holes in bottom) during the winter. Seeds should be thinly spread then covered with a dusting of soil. Then water and refrigerate for about 2 months. She said to not worry about chaff as it helps seeds grow. One of the people attending brought a plant for identification: Becky said it was *Aster patens*. Most everyone wanted seeds. When transplanting into larger pots, soil needs to be firmly pressed down 5-7lb pressure "since wild roots won't grow through air".

Becky later visited my property and I was so glad when she spied several *Aster patens* and *Solidago petiolaris*!. I also learned that the tall goldenrods popping up in my garden are considered to be "invasive bullies" and the flowering heads should be bagged, the roots dug up and burned if possible. We all appreciated Becky taking time to come and share her expertise with us.

November 27<sup>th</sup> 6:30pm Osage Plains members were invited to meet at Janetta Smith's home in the country. As usual, Janetta had lots of comfort food for us to enjoy. This was the last chapter meeting of the year and members shared field trip stories and pictures of plants we don't see in the Truman Lake area. We brainstormed on new places for field trips in 2018. We've become Friends and it's so much fun to look forward to enjoying plants together in the Spring!

We wish you all a safe and joyous Holiday Season.

**Southwest**

*Submitted by Michelle Bowe, Chapter Representative.*

At the October meeting, a very small group of us met at the Lovett Pinetum—we took a short walk around the premises to view the interesting conifers planted there. There is a dwarf conifer garden and one species of interest was a Ginkgo with almost cylindrical leaves. It was a cool evening, so we grilled a few hot dogs and discussed the history of the Pinetum, which is currently being expanded and can be found just off of East Division street outside of Springfield.



## St Louis

*Submitted by Rex Hill, Chapter Representative*

It's been a quiet two months at Lake Wobegon and with the St. Louis Chapter. The chapter has not met since October when we held our annual "Show-and-Tell", sharing photos of trips and plants from the past year. Casey Galvin, Carol and Hugh Nourse, Martha and Rex Hill, Steve Turner, and Stephen Dilks all presented photos of things they had seen and places they had visited in the last year. We are all looking forward to the start of the new year and spring which will soon follow. Our President, Rick Gray, has been busy lining up speakers for the new year and the first three months have been set.



## Hawthorn *Submitted by Cindy Squire Chapter member*

**This fall has been very busy.**

On 7 Oct, our chapter participated in the Chestnut Festival in New Franklin. The sales of native plants was not outstanding however, there were lots of educational opportunities and we sponsored one new member making this event successful.

Lea Langdon attended a Grow Native Soils Workshop in St Louis on 3 Nov. They presented some information about soil inoculants and mycorrhiza and how compost may be superior to commercial soil inoculants.

5 Nov Becky Erickson presented a plant propagation workshop in Columbia at the MDC regional office. There were 40 attendees from all over Mid-Missouri. All skill levels were present and were informed about stratification techniques, how natives have different requirements, when to collect seeds and how to preserve them. Becky explained several different methods to stratify, scarify and coax seed to germinate. Door prizes were given and a plant ID competition proved educational.

8 Nov a few of Hawthorn attended the Grow Native Annual Conference for Native Plant Growers. The focus was on using natives as landscaping plants in the urban environment. We learned about the Audubon Society certification of bird friendly beef production, substitutions of horticultural plantings to native plantings, and what the impact of Nativars are to pollinators (hint, not much nectar).

Danielle Fox presented to the NPS Bimonthly meeting on 13 Nov. Danielle is the Community Conservationist for the City of Columbia. She is starting her 2nd year of a 3 year position. She is a liaison, coordinator and educator of citizens and city staff and departments. Natives are saving money on mowing, creating pollinator habitats, and water retention. There was much discussion on the Current Columbia Weed ordinance which prohibits vegetation over a foot tall which includes most native plants. We sent an emissary 20 Nov to City Council on our behalf to inform them and persuade them to amend this ordinance; Lea Langdon gave a meaningful and professional presentation to the Columbia City Council about the Hawthorne's disagreement with the



## Ozark

*Submitted by Liz Olson Chapter Representative.*

In October our guest speaker was Angela Sokolowski, a Natural Resource Specialist with the Ava District of the Mark Twain National Forest. The Ava District is in southwestern MO and includes the 23 mile Glade Top Trail/Scenic Byway, as well as the proposed Ava Glades Natural Area. The McClurg Glade is a beautiful example of a dolomite glade that has been managed with prescribed fire since 1971.

Angela described a few of the interesting plants there including false guara (*Stenosiphon linifolius*), narrow-leaved gayfeather (*Liatris mucronata*), smoke tree (*Cotinus obovatus*), and yellow coneflower (*Echinacea paradoxa* var. *paradoxa*). This area is not without the usual suite of natural resource issues such as non-native invasive plants, destructive feral hogs, ATV use off of proper trails, and sign vandalism. They have begun an inexpensive solution to sign vandalism; use of posts with QRC codes that visitors can scan with their smartphone to access the information that would have been on a large expensive interpretive sign.

Angela encouraged public input on Forest Service management through the NEPA process – both positive and negative comments. Visit the website at <https://www.fs.usda.gov/projects/mtnf/landmanagement/projects>. There you will see a list of current and recent projects to comment on.



**[Hawthorn cont.]** current weed ordinance. A dozen supporters were invited to stand up and show the Council our support in a revision to the ordinance.

15 Nov Nadia Navarrete-Tindall, a NPS member and plant specialist gave a Winter Landscaping presentation at the Columbia Public Library. Over 60 interested citizens attended. There were slides of her personal landscaping efforts and information on leaving the gardens untidy with seeds and leaf litter for the birds and pollinators. There were native plant snacks following the presentation.

Both the 19 Oct and 16 Nov monthly lunches at the Uprise Bakery on 10 Hitt Street in Columbia were well attended. There is good food, lively conversation about seeding natives in winter, and appropriate chemical application on aliens. We had a mini seed exchange during the November lunch.



## Kansas City *Submitted by John Richter, KC Chapter Pres*



## Perennis *Submitted by Andrew Braum, Chapter Representative*



## Empire *Steve Buback Chapter Representative*

No reports at this time.

## Chapter Calendars

### Hawthorn *from Cindy Squire*

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.

See [www.columbianativeplants.org](http://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.

**21 Dec Thur – 11:30** Lunch at Uprise Bakery. Take a break from shopping. Meet us downtown for lunch!

**8 Jan 2018 Mon – 6pm** Bimonthly Meeting at Unitarian Church. We need volunteers to step up to fill President and Secretary. This is our annual planning meeting. Please attend and voice your druthers.

**18 Jan Thur - 11:30** Lunch at Uprise Bakery.

**15 Feb Thur - 11:30** Lunch at Uprise Bakery.

**12 March Mon – 6pm** Bimonthly Meeting at Unitarian Church. Important logistics meeting for spring plant sales.

### 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 4<sup>th</sup> 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.mo.gov](mailto:Elizabeth.Middleton@mdc.mo.gov) or Chapter Representative Casey Burks [mobugwoman@gmail.com](mailto:mobugwoman@gmail.com). Field Trip coordinators are Bernie Henehan [berniehenehan@yahoo.com](mailto:berniehenehan@yahoo.com) and Dan Henehan [danhenehan@embarqmail.com](mailto:danhenehan@embarqmail.com)

**26 Feb: 6:00pm** at the MDC building, Clinton, MO

### 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.

**20 Feb 2018:** winter plant ID. We will learn to identify plants in winter by their persistent and often showy remains.

### 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 website, and Facebook page. As always, ideas are welcome!

Contact Andrew for updates on activities [apbraun1s@gmail.com](mailto:apbraun1s@gmail.com)

## Upcoming Events

### 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/>

**24 Jan 2018 – 7:30 PM** – Dr. Richard Abbott, Missouri Botanical Garden – Basic Plant ID for Field Botanists.

**28 Feb – 7:30 PM** – Hugh and Carol Nourse – A Gneiss Garden: The botany of a granitic outcrop near Athens Georgia through the seasons.

**28 March – 7:30 PM** – Dr. Richard Abbott, Missouri Botanical Garden – Updating Gleason and Cronquist (Making sense of recent changes in plant taxonomy).

### Paradoxa *from Jerry Barnabee*

Paradoxa schedules meetings/walkabouts at a variety of locations in the Rolla area. Watch our chapter page on the [monativeplants.org](http://monativeplants.org) website for updates, or email us at [paradoxarolla@gmail.com](mailto:paradoxarolla@gmail.com) and ask to be added to our email list. Workdays for the Bray CA Botanical Collection and Herbarium Project are held on the first and third Thursdays of the month.

**10 Feb Sat.** Time and place TBT: Winter Tree Identification hike led by Brian Wall. Keep in touch for details.

### Kansas City *from John C. Richter*

Meetings are usually held at MDC Discovery Center 7 pm, 1<sup>st</sup> 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](mailto: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.

No new activities planned at this time.

### Empire Prairie *from Steve Buback:*

Nothing submitted at this time.

My sincerest apology to anyone offended by any material in any article offered herein.

## LINK IN!!

Members who receive this by email can Ctrl+Click on links to open for allot of information.

**Article on the effects of neonicitinoides on insects in Sept 2015 Wild Ones! Journal** <http://wildones.org/Neonics.pdf> These chemicals are as bad a DDT. They persist in plants down wind of application site. For more info on neonics look at the Xerces Society site.

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](http://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 down load may provide some assistance;

[https://www.fs.fed.us/foresthealth/technology/pdfs/FHTET-2016-04\\_Biocontrol\\_Field\\_Guide.pdf](https://www.fs.fed.us/foresthealth/technology/pdfs/FHTET-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/plantsanimals/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.

## **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 have not supplied 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 backyard 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.

## Southwest calendar *from Michelle Bowe*

**Meetings will be at different locations in Spgfld, 4<sup>th</sup>**

**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](mailto:Mbowe@MissouriState.edu) 417-836-6189

Contact Michelle for any winter meeting plans.

## Information on NATIVARS [nutrition evaluated at MU]

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 [\[http://gownative.org/resource-guide\]](http://gownative.org/resource-guide) Usually the smaller operations have local source plants and seeds. Or from your chapter members who know how to propagate wild.

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://d2vsp3qmodity48p.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/>

Palfoxia by Casey Burks  
A native annual which prefers a glade habitat



# Habitat is the Key to Survival

Scott Black, Director May 23, 2017

The Xerces Society,  
628 NE Broadway, Suite 200, Portland, OR 97232  
Photo: The Xerces Society/Sarah Foltz Jordan



Climate change is real. In 2016, Earth's surface temperatures were the warmest on record - the third year in a row to set a new record - and 16 of the 17 warmest years have been since 2001. We are just beginning to understand the potential impacts of such warming, and the news is alarming. Profound changes in Earth's climate have already put invertebrates at risk, and more extreme shifts could disrupt pollination and entire food webs.

We live in a time when the value of science is being dismissed, research is questioned, or evidence is distorted to fit desired outcomes. Despite all this, the data cannot be denied: Our planet is warming.

[You can help us protect our food systems and natural food webs from the impacts of climate change. We need your support so that we can address this monumental issue of our time.](#)

Our planet could lose its coldest places, and butterflies that thrive high in the mountains will not be able to find refuge at higher elevations. As streams heat up and water flow is reduced, stoneflies, caddisflies, mayflies, and freshwater mussels may be especially at risk, since these creatures cannot easily relocate to colder streams. Insects that rely on wetlands, wet meadows, or shorelines could see their homes dry up - or be swamped. Bumble bees are also projected to fare poorly. Several species in North America currently face the risk of extinction, and unfortunately climate change will only make this worse.

[We understand that species loss is not acceptable to you and we will work tirelessly on your behalf to protect the animals that you care so much about.](#)

Research suggests that providing high-quality habitat may allow species to adapt to climate change. There are two ways to pursue much-needed habitat conservation: restoration, because replacing what's been lost is essential, and management to improve the value of existing habitat. High-quality habitat can be created and restored for species in a variety of locations from urban to rural. Ecologically appropriate management of forests, rivers, rangelands, roadsides, and farms is urgently needed. Keeping these habitats connected as corridors and stepping stones is especially important, so that bees, butterflies, beetles, and other invertebrates can move across the landscape.

We also need to reduce the effects of stressors such as pesticides, diseases, overgrazing, and invasive species. For instance, more effective disease detection and management strategies in commercially reared bumble bees are urgently needed to reduce infection of wild bumble bees.

[Conserving habitat equals resiliency in the face of a changing climate and only with you by our side will we be able to address this critical global challenge.](#)

## Reflecting on a Big Ice Storm [a space filler from Becky's archives]

Nature sure has its cycles. People with their seventy (+/-) year lifespan don't realize how much one spot on Earth can change from natural causes. I drove from Columbia to Springfield only days after the storm passed and noticed waves of heavier ice and scraggly, broken trees alternating with areas where there was a much lighter coating on more entire trees. Of course most of the trees that were damaged were frail or brittle species purposely or inadvertently introduced by people in the last 70 years. And all of the previously "topped" trees looked like worn out broom sticks, like the kind you see sticking up from the bed of a farm pickup. I also had to think of the region they are in: prairie . . . with all the harshest weather that can be invoked: high winds and tornadoes, treacherous ice storms, heavy snowfall, droughts that seem to go forever, and don't forget the greatest leveler, fire.

Without studying the climate of the ecosystems we live in, we decide to plop down and make it "home" just like it was in the Somewhere Else we came from. As we move from the shaded forest we take our beloved trees with us into the prairie. We develop modern conveniences that need to be powered by something with more speed and stamina than hand work, so we set up electric lines in the air on tall poles mixed up with the trees we want to shade us from the prairie sun. 70 years later this setup backfires and most people wonder why. Well, some of us don't.

So today we will mourn the passing of some big trees and some damage to others caused by helpful, needed moisture in a form that made us all sit still for a few days. I admire those of you who have already recognized the blessing of the big trees' deaths. There could be other blessings. Perhaps there will be flowers emerge from the previously shaded Earth. Or perhaps there are small oaks ready to take the place of the old fragile maples and elms. Different animals will investigate the changed habitat. Opportunities are endless. Wonderful things can happen . . . Maybe the electric lines will be put underground.



Missouri Native Plant Society  
PO BOX 440353  
St Louis, MO 63144-4353  
www.monativeplantsociety.org  
www.monativeplants.org



*The Petal Pusher is printed on recycled paper*

RETURN SERVICE REQUESTED

**"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

**VICE PRESIDENT**

Dana Thomas  
1530E Farm Rd 96  
Springfield MO 65803  
mail@botanytraining.com

**SECRETARY**

Malissa Briggler  
10297 CR 371  
New Bloomfield, MO 65063  
573-301-0082  
Malissa.Briggler@mdc.mo.gov

**TREASURER**

Bob Siemer  
74 Conway Cove Drive  
Chesterfield, MO 63017  
636-537-2466  
aee623@prodigy.net

**MEMBERSHIP**

Ann Earley  
P.O. Box 440353  
St. Louis, MO 63144-4353  
314-963-0103  
aee623@prodigy.net

**PAST PRESIDENT**

Paul McKenzie  
2311 Grandview Circle  
Columbia, MO 65203  
573-445-3019  
paulbeckymo@mchsi.com

**BOARD MEMBERS**

Justin Thomas ('17 - '20)  
1530E Farm Rd 96  
Springfield MO 65803  
jthomas@botanytraining.com

Mike Skinner ('17 - '20)  
167 South Peachtree  
South Peachtree  
Republic, MO 65738  
417-268-5704  
Mike.Skinner6680@gmail.com

Bruce Schuette ('16-'19)

678 St. Route 147  
Troy, MO 63379  
636-528-7247 (w)  
basch@centurytel.net

Rick Gray ('18 - '21)  
6 Montauk Court  
St Louis MO 63146  
314-9936088  
rgray@seilerinst.com

Steve Buback ('18 - '21)  
MDC NW Regional Office  
701 James McCarthy Dr  
St. Joseph, MO 64507  
816-271-3111  
Steve.Buback@mdc.mo.gov

Ron Colatskie ('16 - '19)  
8 Walnut Park Dr  
Cedar Hill, MO 63016  
636-931-5222  
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

**PETAL PUSHER EDITOR**

Becky Erickson  
PO BOX 496  
Ashland MO 65010  
573-657-2314  
beckyerick711@centurylink.net

**DISTRIBUTION MANAGER**

Leslie Limberg  
636-398-8809  
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  
RexLHill@charter.net

**WEBMASTER**

Brian Edmond  
8878 N FR 75  
Walnut Grove, MO 65770  
417-742-9438  
brianedmond@gmail.com

www.monativeplants.org  
www.monativeplantsociety.org

**ENVIRONMENT & EDUCATION**

John Oliver [also President]

**CHAPTER REPRESENTATIVES**

**PARADOXA**

Jerry Barnabee  
34653 White Oak Rd  
Plato, MO 65552

paradoxarolla@gmail.com

**SOUTHWEST**

Michelle Bowe  
901 S. National  
Springfield MO 65897  
417-836-6189  
Mbowe@MissouriState.edu

**KANSAS CITY**

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

**PERENNIS**

Andrew Braun  
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  
417-256-7161 Ext. 4763 (w)  
Elizabeth.Olson@mdc.mo.gov

**OSAGE PLAINS**

Casey Burks  
914 SE Hwy ZZ  
Deepwater, MO 64740  
515-291-1550  
mobugwoman@gmail.com

**HAWTHORN**

John George  
3813 Evergreen Lane  
Columbia, MO 65102  
573-777-0394  
John.George@mdc.mo.gov

**ST. LOUIS**

Rex Hill  
4 Grantwood Lane  
St. Louis, MO 63123  
314-849-1464  
RexLHill@charter.net