

# PETAL PUSHER

August 2018 Newsletter of the Missouri Native Plant Society Volume 33 No.4

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

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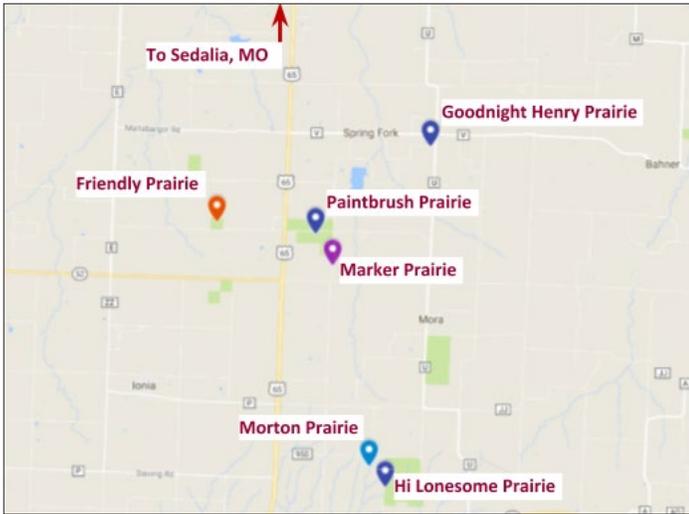
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Prairie goldenrod (*Oligoneuron album*). Photo by Brett Budach

## 2018 MONPS Fall Field Trip

Come see what's happening on the prairie in September! What a treat it will be to explore six unique prairies near Sedalia, Missouri, including two privately owned sites. Throughout the visits, we will discuss how each site reflects its unique management history, will add to the plant lists for each site, and will leave with an even deeper appreciation for one of the most imperiled ecosystems on the Earth. Our Friday evening presentation by Justin Thomas, science director at NatureCITE, is entitled *How Nature Works: A Prairie Perspective*. He will discuss the nuts and bolts of nature, through a prairie lens, in a way that connects ecology, evolution, physics, and morality (land ethic). This will provide a precursor to living examples that he will use to illustrate this synthesis on the subsequent Saturday and Sunday field trips.



2018 MONPS Fall Field Trip Overview Map, Sedalia, MO

You are welcome to join in for all of the field trips, or just come to the ones that fit your schedule. If you'll only be attending some of the forays, it's best to join the group first thing in the morning, as we can be difficult to locate if you attempt to join during the middle of the day. **Please note: Bring your own lunch, water, and folding chair on Saturday, and we'll eat in the field.**

Changes to the schedule could occur! Keep an eye on the following links for most current info and for detailed maps to each site:

- [Google Map Page](#)—interactive driving directions
- [MONPS Website](#) or [Facebook Event Page](#)—detailed maps and species lists

## Lodging

We have reserved a block of rooms at the Comfort Inn in Sedalia for September 14 and 15. The **deadline to reserve a room has passed**. If you prefer to stay at a different hotel, there are several other options in Sedalia.

## Hotel

### Comfort Inn Sedalia

3600 W Broadway Boulevard, Sedalia, Missouri 65301

Phone: (660) 829-5050

GPS: 38°42'43.4"N 93°16'21.2"W or 38.712056, -93.272560

## Camping Options:

### Missouri State Fair Campground

2503 W 16th Street, Sedalia, Missouri 65301

Phone: (800) 422-3247

Tent or RV sites available. No fires allowed.

Click [HERE](#) for website.

### Knob Noster State Park

873 SE 10 Road, Knob Noster, Missouri 65336

Phone: (660) 563-2463

Tent or RV sites available. Twenty minutes west of Sedalia.

Click [HERE](#) for website.

If you have any questions, please contact Dana Thomas at [dthomas@botanytraining.com](mailto:dthomas@botanytraining.com) or (317) 430-6566.



Stiff goldenrod (*Oligoneuron rigidum*) and rough blazing star (*Liatris aspera*). Photo by Brett Budach

# 2018 Fall Field Trip Itinerary

## Friday, September 14

### 1:00-5:00 p.m.—Early Bird Field Trip to Paintbrush Prairie Conservation Area (MDC).

- Meet at Paintbrush Prairie at 1:00 p.m.
- **Parking area GPS:** 38°32'58.3"N 93°15'54.7"W or 38.549520, -93.265180.

### 7:00 p.m.—Evening Presentation at the Multipurpose Room of the University Extension Center.

- Justin Thomas, science director at NatureCITE, will give a presentation entitled *How Nature Works: A Prairie Perspective*.
- **GPS:** 38°42'11.0"N 93°15'58.4"W or 38.703041, -93.266220
- **Address:** 1012 Thompson Blvd, Sedalia, MO 65301

## Saturday, September 15

### 8:00 a.m.—Morning Field Trip

#### 8:00-10:00 a.m.—Goodnight Henry Prairie (The Nature Conservancy)

- Meet at the Comfort Inn parking lot at 8:00 a.m. to carpool/caravan. Or meet the group at Goodnight Henry at approximately 8:20 a.m. Park along Coffey Road on north side of property.
- **Parking area GPS:** 38°34'27.9"N 93°12'59.1"W or 38.57442, -93.21641

#### 10:00 a.m.-12:00 p.m.—Marker Prairie

- We'll head about 5 miles down the road to privately owned Marker Prairie.
- **Parking area GPS:** 38°32'21.8"N 93°15'11.7"W or 38.53938, -93.25325

### 12:00 p.m.—Picnic Lunch

- **PLEASE BRING YOUR OWN LUNCH, PLENTY OF WATER, AND A BLANKET OR LAWN CHAIRS!**
- We'll have our picnic lunch in the lawn of a farmhouse owned by the Markers. The driveway to the farmhouse runs east from the area where we park.

### 1:00 p.m.—Afternoon Field Trip

#### Hi Lonesome Prairie Conservation Area (MDC)

- This prairie is about 10 miles south of Marker Prairie.
- **Parking Area GPS:** 38°28'26.1"N 93°13'59.9"W or 38.47392, -93.23331

#### Morton Prairie

- We will finish the afternoon exploring a tract of prairie across the road from Hi Lonesome that is privately owned by Dr. Wayne Morton.

### 7:00 p.m.—MONPS Board Meeting at the Multipurpose Room of the University Extension Center.

- **GPS:** 38°42'11.0"N 93°15'58.4"W or 38.703041, -93.266220
- **Address:** 1012 Thompson Blvd, Sedalia, MO 65301

## Sunday, September 16

### 8:00 a.m.—Morning Field Trip – Friendly Prairie (Missouri Prairie Foundation).

- Meet at Super 8 parking lot at 8:00 a.m. to carpool/caravan. Or meet the group at Friendly Prairie at approximately 8:20a.m..
- **Parking area GPS for Friendly Prairie:** 38°33'00.9"N 93°17'56.0"W or 38.55025, -93.29888



# Chapter Events

## Hawthorn

### **09-08: Saturday Fabric Dyeing with Native Plants Workshop, 10:00 a.m.–5:00 p.m.**

The fabric dyeing using native plants workshop is given by Carol Leigh Brack-Kaiser. Space is limited. Bring your own food, beverage and a folding chair. The cost is \$20.00. Please call to reserve your space: (573) 874-2233.

### **09-10: Bimonthly Chapter Meeting, 7:00 p.m.**

Chapter meetings are held on odd-numbered months on the second Monday at the Unitarian Church, 2615 Shepard Boulevard, Columbia, Missouri. Newcomers and friends are welcome to attend.

### **09-19: Chapter Lunches, 11:30 a.m.**

Chapter lunches are held on the third Thursday of each month just south of Broadway Street in downtown Columbia at Uprise Bakery inside the lobby of the RagTag Theatre, 10 Hitt Street, Columbia, Missouri.

See [www.columbianativeplants.org](http://www.columbianativeplants.org) for updated postings of newsletters and activity details.

## Kansas City

### **09-04: Guest Speaker Kunso Kim of Powell Gardens, MDC Discovery Center, 7:00 p.m.**

Kunso Kim joined Powell Gardens as vice president of gardens in January 2018. He will share his vision and plans for growing the gardens through expanded educational opportunities and new garden initiatives, leveraging assets such as nationally recognized plant collections, and world-class architecture. Kunso brings nearly 30 years of horticultural management experience to Powell Gardens and most recently led a team, who planned and implemented a horticultural master plan for Samsung's Everland theme park, in Yongin, South Korea. Kunso is an engaging and inspiring speaker, and his presentation will be mentally engaging. Please plan to attend this event! As always, all are welcome, including members and non-members.

### **09-28: Field Trip to Jerry Smith Park, 6:00 p.m.**

Walkabout at Jerry Smith Park to look at the native prairie, all are welcome to attend. Parking is at the Elks Lodge. If you plan to attend, please RSVP with John Richter [richterjc@bv.com](mailto:richterjc@bv.com), or call (816)519-8201.

### **11-06: Chapter Meeting, MDC Discovery Center, 7:00 P.m.**

Activity T.B.D.

## Osage Plains

Osage Plains Chapter does not have a regular meeting in August. However, we do have ideas for field trips as the weather allows.

### **09-24: Chapter Meeting**

The next regular chapter meeting will be at the CDC building in Clinton. Please contact Elizabeth Middleton, Bernie Henehan, Dan Henehan, or Casey Burks for further information.

## Paradoxa

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, as dates and locations may change. Workdays for the Bray CA Botanical Collection and Herbarium Project are generally held on the first and third Thursdays of the month.

## Perennis

Watch for announcements by e-mail, the MONPS Facebook page, and the MONPS website.

## Saint Louis

### 09-26: Chapter Meetings, 7:30 p.m.

Chapter meetings are held on the fourth Wednesday of the month at the Sunset Hills Community Center, 3939 South Lindbergh Boulevard, Sunset Hills, Missouri.

### 10-24: Photography Sharing, 7:30 p.m.

Every year this is the meeting where chapter members are invited to share their photographs from the past field season. PowerPoint presentations, digital images, and even old-fashioned slides are welcome (if we can still find the projector).



**Save the Date!**  
**Missouri Botanical Symposium**

Join us in Rolla, MO  
**November 16, 2018**  
for day of botanical presentations by regional experts!  
Lunch included.

Registration will open August 16th. See details at [www.missouribotanicalsymposium.org](http://www.missouribotanicalsymposium.org).

The Missouri Botanical Symposium provides an opportunity for botany professionals and enthusiasts to share research and ideas about a variety of botanical topics. The 6th annual symposium is held on the campus of the Missouri University of Science and Technology in Rolla, Missouri.

## From the Editor

We are releasing an abbreviated interim issue as we develop a strategic plan for our newsletter and establish new protocols for editing and article submission. Our next full-length issue will feature pollinators with more articles unique to this publication. Thank you for your continued support as we finish transitioning the *Petal Pusher* to our exciting, new format.

Sincerely,



**Erin Skornia, Petal Pusher Editor**

# Chapter Updates



Redwhisker clammyweed (*Polanisia dodecandra*) from the Osage Plains field trip to Wayne Morton's savanna. Photo by Casey Burks.

## Hawthorn

**Submitted by Cindy Squire, Chapter President**

On May 14, the Hawthorn Chapter had our bimonthly meeting. We had elections for the vacant positions of president and secretary, and they were filled. We had a presentation by John George, the regional wildlife supervisor with the Missouri Department of Conservation, on chronic wasting disease in deer. Those of us viewing natives are now better prepared for what to do in case we see a sick deer.

Carol Leigh Brack-Kaiser will be presenting a workshop at Hillcreek Fiber Studio in Columbia on Saturday, September 8. She will instruct us on dyeing fabrics with native plants.

Monthly lunches at the Uprise Bakery on 10 Hitt Street in Columbia were well attended. Please join us!

## Kansas City

**Submitted by John Richter, Chapter President**

All is well with the Chapter. Of note is the explosion of Callery pear (*Pyrus calleryana*) within roadways in the Kansas City region. This outbreak will have adverse results on natural areas, as we are now seeing it encroach into high quality woodlands. Invasive silvergrass (*Miscanthus* sp.) clumps can now be observed growing on roadways in the region as well.

## Osage Plains

**By Casey Burks, Chapter Representative**

On June 24, we had a combination meeting/evening field trip at the Neuenschwander Prairie. There was a great turnout on a gorgeous, cool evening. After the prairie walk, the stars started showing, and it turned into a fun astronomy lesson.

On July 23, Wayne Morton again invited us to enjoy his savanna. It is in the beautiful and very hilly area east of Osceola, Missouri. Wayne has been working on a half-acre each year since the 90's clearing trees, brush, beating back sericea lespedeza (*Lespedeza cuneata*), doing prescribed burns, etc. He has felt so rewarded whenever he sees plants such as Indian paintbrush (*Castilleja coccinea*) and blazing star (*Liatris* spp.) emerge in the areas he has reclaimed. On this visit, we saw the prickly-looking seed pod of a climbing milkweed (*Matelea decipiens*). I had seen flowers of this plant in southern Missouri but had never seen the pod. We also saw large patches of short, purple blazing star.

Several years ago, Wayne received a few sprouts of the Ozark chestnut, also called Ozark chinquapin, (*Castanea pumila* var. *ozarkensis*). He planted these on the savannah and put fences around them. One of the seeds took off and is now a healthy four-foot tall, and Wayne carries water to it. He is so happy to see a plant, imperiled in Missouri, thrive.

We looked at one plant that Wayne thinks is the only one he has seen on the whole savannah. To me, it looked like a spiderflower (*Cleome* sp.), but I'd never heard of a native wild cleome before so could not figure out the species. Justin Thomas has since identified it as redwhisker clammyweed (*Polanisia dodocandra*). We could have easily spent many more hours exploring areas there and always look forward to seeing the savannah in different seasons.

## Ozarks

**Submitted by Calvin Maginal,  
Chapter Representative**

This spring, we visited Vanderhoef Memorial Conservation Area for an early-season wildflower walk. In addition, the Ozarks chapter will wrap up its plant identification meetings on August 21 at the Missouri Department of Conservation Ozark Regional

Office starting at 6:30 p.m. The past few meetings have consisted of folks bringing in plants from their yards, woodlands, and fields for identification by local experts.

## Paradoxa

**By Pam Barnabee, Chapter President**

On May 5, Mike Leahy, Missouri Department of Conservation natural areas coordinator, led chapter members on a walk through the Ozark fen and prairie fens of Kaintuck Hollow. We identified at least thirty plants on the Mark Twain National Forest plants checklist for fens that Mike provided as well as many more woodland plants not on the list.

May 12 was the date for our annual native plant sale at the Rolla Farmer's Market. The event is important to us not only as a fundraiser but, more importantly, as a way to promote the use of native plants in our community. It was a success in every way, including signing up a new member. Thank you to all who donated plants, helped at the event, and shopped!

Thirteen Paradoxa members, more than one-third of our membership, joined in on one or more of the MONPS activities the weekend of June 6–8: field trips, Friday night presentation, or Saturday's annual membership meeting. Thank you, MONPS board, for giving us this opportunity, in our own backyard, to connect with MONPS folks from across the state and learn firsthand what MONPS is all about. Special thanks to member Janet McKean for securing the Phelps County Courthouse multipurpose room for Friday and Saturday nights, arriving early to unlock and set up, and staying until everyone left and the room was again shipshape.

For our June 28 walkabout, Kari & Drew Lane invited the chapter to tour the woodland and prairie restoration projects in progress on their thirteen-acre property on the outskirts of Rolla. Despite the heat advisory, we had a good turnout for the evening. Our first stop was to admire the garden, where Kari has been digging out the previous owner's plants and replacing them with natives. Staying in the shade, we moved next to the woodland. Kari and Drew have concentrated their efforts, timber stand improvement and prescribed burns, on one part of their woodland. As we walked down the path through the woods, looking from one side to the other, we got a good before-and-after perspective on woodland management. The last stop on the tour was a former

tall fescue (*Schedonorus arundinaceus*) field overrun with Johnson grass (*Sorghum halepense*). It's been treated, burned, and seeded a year-and-a-half ago with forbs. black-eyed Susan (*Rudbeckia hirta*), purple coneflower (*Echinacea purpurea*), gray-headed coneflower (*Ratibida pinnata*), and ox-eye sunflower (*Heliopsis helianthoides*) are now thriving. The battle against invasives is far from over, but serious progress has been made. Thank you, Kari and Drew, for a fun and educational evening.

## Perennis

### By Andrew Braun, Chapter Representative

Members of the Perennis chapter met at Big Cane Conservation Area on June 24. This area is a coastal plain bottomland forest dominated by wetland tree species, such as swamp chestnut oak (*Quercus michauxii*), water oak (*Q. nigra*), and willow oak (*Q. phellos*), among others. The ditches along the loop road through the area are home to many regionally uncommon or restricted southeastern species, like corkwood (*Leitneria floridana*), Mississippi valley goldentop (*Euthamia leptcephala*), Lindheimer's hogwort (*Croton capitatus* var. *lindheimeri*), swamp cottonwood (*Populus heterophylla*), and one-flower false fiddleleaf (*Hydrolea uniflora*).

The Perennis chapter met again at Hawn State Park on July 14. The group compared some sunflower species (*Helianthus hirsutus* and *H. divaricatus*), blackberries (*Rubus allegheniensis*, *R. enslenii*, *R. meracus*, and others), panic grasses (*Dichanthelium* sp.), avens (*Geum canadense* and *G. virginianum*), and other species found in the woodland around the amphitheater. Other species of note included whiteleaf mountain mint (*Pycnanthemum albescens*) and bearded skeleton grass (*Gymnopogon ambiguus*).

Watch for announcements by e-mail, the MONPS Facebook page, and the MONPS website.

## Saint Louis

### By Rex Hill, Chapter Representative

On April 25, Dr. Kyra Krakos, associate professor at Maryville University, and one of her students, Grant Czaplá, presented their recent work, which they entitled *Plants, Power and the Politics of the last Medici Princes*. It was a fascinating discussion of how they have been able to track down the plants used in

recipes for some of the pharmaceuticals distributed by the Medici family. In many instances, the secrecy of these recipes led to a great deal of power held by the Medici family, but their descriptions could be somewhat misleading or ill-defined. Using many resources, including the rare book collection at the Missouri Botanical Garden, they have been able to identify the ingredients of two of the pharmaceuticals, and they plan to continue working on others.

On Friday, May 11 and Saturday, May 12, the Saint Louis Chapter sponsored an informational booth at the annual spring plant sale at Shaw Nature Reserve. The theme this year was Missouri Natural Areas near Saint Louis, and, as usual, was an attempt to encourage people to get out and see native plants and wildflowers in their natural settings.

On May 23, Brigette Williams, last year's Hudson Fund awardee, presented some of her research results using gladecress (*Leavenworthia*) to study conservation epigenetics and phenotype plasticity.

On June 27, our annual evening wildflower walk was held at Shaw Nature Reserve.

Our speaker on July 25 was Dr. Aaron Floden, who is the assistant scientist at the Missouri Botanical Garden with responsibility for the Flora of Missouri Project. His talk dealt with his work on the flora of the southeastern United States, much of which overlaps with the Missouri flora. Richly illustrated with detailed photos, DNA information, and range maps, the talk was a tour of several groups which have occupied Aaron's time in recent months. In several of these, he made the case that DNA and morphology as well as subtle habitat differences argue in favor of finer splitting of the taxa. Some of the genera he covered were waterhorehound (*Lycopus*), beebalm (*Monarda*), grass of Parnassus (*Parnassia*), with particular emphasis on our own largeleaf grass of Parnassus (*P. grandifolia*), arguing that the disjunct populations in other states may be different species, Carolina bugbane (*Trautvetteria caroliniensis*), again urging more study of the genetic and morphology differences in this widely distributed species. He also showed a new pagoda-plant (*Blephilia*) species he discovered in Tennessee, and teased us with some upcoming research on problem genera such as hedgenettle (*Stachys*). We look forward to working more closely with Aaron and hope to see him at a state-wide meeting soon!

# Summer Field Trip, Rolla, Missouri

Photos courtesy of Dana Thomas.



Does *Echinacea* smell good in the rain?



Enjoying the early morning mist Lane Spring Recreation Area.



Natural Bridge at Clifty Creek Conservation Area.



Botanizing at Western Star Flatwoods.



John Oliver presenting Doug Ladd with the Steyermark Award.



Nels Holmberg receiving the John E. Wylie Service Award.

## New Members

### Perennis and

### St. Louis Chapters

Stephen Dilks, Bonne Terre

### Hawthorn

Anne & Gary Miller, Columbia

Winifred Scott, Columbia

Margaret Tyler, Columbia

Rich & Diane Rhea, Huntsville

### Paradoxa

Shelly McDavid, Rolla

Linda Modesitt, Rolla

Connie Schmiedeskamp, Vienna

Mimi Hedl, Belle

### Ozark

Ruth Douglas, Charlottesville, Virginia

### Southwest

Duane Roberts, Harrison, Arkansas

### State Membership

Holly Oden, Kansas City

Caitlin Hanes & family, Eldon



## It's Time to Pay Your Dues

### Fee Increases for Hardcopy

### *Petal Pusher* Delivery

By Ann Earley, Membership Chair

The Missouri Native Plant Society Board voted at their June 9th meeting to increase the fee for postal service delivery of the hardcopy *Petal Pusher* going forward to \$10.00 per year from \$5.00 per year. This increase reflects higher costs for paper, printing, and mailing the hardcopy of the newsletter. This fee is in addition to the state Society and chapter membership dues. Members who choose to receive their newsletter by email delivery, which is included with payment of membership dues, can avoid paying this additional fee. Members with questions about the hardcopy fee may contact me or your chapter representative for further information, using the contact info on the back page of this newsletter.

Membership renewals for the July 2018–June 2019 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 20180630, your dues are now payable. When renewing, please remember to include your contact information **including email address**, and your society and chapter dues preferences. Membership renewal online is also available via our website at <https://monativeplants.org/membership/>, which offers the option of online payment via PayPal.

For those members receiving their newsletter by email without a mailing label, or for others with questions about their membership status, please contact me or your chapter representative (see the back page for contact details) for information about your membership expiration date. We value our members and urge you to renew today!

# Join Us! Become a New Member or Renew

You may become a member online at <https://monativeplants.org/membership/>, or you may fill out this form and mail to:

**Missouri Native Plant Society**  
**PO BOX 440353**  
**St. Louis, MO 63144-4353**

.....  
First Name \_\_\_\_\_ Last Name \_\_\_\_\_

Street \_\_\_\_\_

City, State ZIP Code \_\_\_\_\_

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

Company/Organization \_\_\_\_\_

## Membership Status

Choose one:  New member  Returning member

### State Membership

(Choose one):

- Student (\$5.00)
- Regular (\$10.00)
- Contributing (\$20.00)
- Life (\$200.00)

### Chapter Membership

In addition to society dues:

- Empire Prairie (Saint Joseph) (+\$5.00)
- Hawthorn (Columbia) (+\$6.00)
- Kansas City (+\$5.00)
- Osage Plains (Clinton) (+\$5.00)
- Ozarks (West Plains) (+\$5.00)
- Paradoxa (Rolla) (+\$5.00)
- Perennis (Cape Girardeau) (+\$5.00)
- Saint Louis (+\$5.00)
- Southwest (Springfield) (+\$5.00)
- None

### Optional Contributions:

**Hudson Fund:**

I wish to donate an extra amount to the Hudson Research Grant Fund.

\$ \_\_\_\_\_

**Other Contribution:**

I wish to donate an extra amount to general Society business.

\$ \_\_\_\_\_

## Newsletter Delivery:

- I wish to receive the complimentary email newsletter
- I wish to receive my newsletter by postal mail (+\$10.00)

.....  
**Total Membership/Donation Amount: \$ \_\_\_\_\_**

**Make check payable to:** Missouri Native Plant Society



## Missouri Native Plant Society

PO BOX 440353  
St Louis, MO 63144-4353

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



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### President

John Oliver  
4861 Gatesbury Dr  
St. Louis, MO 63128  
314-487-5924  
[oliverjcomo@msn.com](mailto:oliverjcomo@msn.com)

### 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  
[ae623@prodigy.net](mailto:ae623@prodigy.net)

### Membership

Ann Earley  
P.O. Box 440353  
St. Louis, MO 63144-4353  
314-963-0103  
[ae623@prodigy.net](mailto:ae623@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 (2017-2020)  
1530E Farm Rd 96  
Springfield MO 65803  
[jthomas@botanytraining.com](mailto:jthomas@botanytraining.com)

Mike Skinner (2017-2020)  
167 South Peachtree  
South Peachtree  
Republic, MO 65738  
417-268-5704  
[Mike.Skinner6680@gmail.com](mailto:Mike.Skinner6680@gmail.com)

Bruce Schuette (2016-2019)  
678 St. Route 147  
Troy, MO 63379  
636-528-7247 (w)  
[basch@centurytel.net](mailto:basch@centurytel.net)

Rick Gray (2018-2021)  
6 Montauk Court  
St Louis MO 63146  
314-993-6088  
[rgray@seilerinst.com](mailto:rgray@seilerinst.com)

Steve Buback (2018-2021)  
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 (2016-2019)  
8 Walnut Park Dr  
Cedar Hill, MO 63016  
636-931-5222  
[Ronald.Colatskie@dnr.mo.gov](mailto: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

Erin Skornia  
1523 E. Miller St.  
Jefferson City, MO 65101  
[erinskornia@me.com](mailto:erinskornia@me.com)

### 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  
[RexLHill@charter.net](mailto:RexLHill@charter.net)

### Webmaster

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

### Environment and Education

John Oliver (Board President)

### Chapter Representatives

#### Empire Prairie

Steve Buback (Board Member)

#### Hawthorn

John George  
3813 Evergreen Lane  
Columbia, MO 65102  
573-777-0394

#### Kansas City

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

#### Osage Plains

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

#### Ozarks

Calvin Maginel  
551 Joe Jones Blvd,  
West Plains, MO 65775  
417-256-7161  
[Calvin.Maginel@mdc.mo.gov](mailto:Calvin.Maginel@mdc.mo.gov)

#### Paradoxa

Jerry Barnabee  
34653White Oak Rd  
Plato, MO 65552  
[paradoxarolla@gmail.com](mailto:paradoxarolla@gmail.com)

### Perennis

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

### Saint Louis

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

### Southwest

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

**“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**