



Missouri Native Plant Society Hawthorn Chapter Newsletter

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The Hawthorn Chapter of the Missouri Native Plant Society Newsletter is published monthly. Send submissions by the 26th of every month to:

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We would like to read about announcements, impressions, species accounts, photos, poems, links to scientific articles or other creative nature writing from you, too. Please submit during the second half of every month.

This is the 36th year Hawthorn has supplied a newsletter to chapter members.

April 2021

Future Activities Calendar

For the foreseeable future we will have presentations and occasional meetings offered by Zoom. **Our traditional meeting time is second Mondays at 6:30.**



Announcements

There is no Program scheduled for our April chapter meeting. Please express your interest in future activities by attending the Hawthorn business meeting 12 April 2021.

The Zoom link will be sent to you the weekend before the Meeting.

Our Hawthorn meetings are open to any MONPS members for interest or kibitz. Hawthorn chapter members are welcomed to offer suggestions and opinions to all/any issues that are presented at meetings. Our chapter president Elena is offering this agenda for our meeting 12 April 21, Agenda is as follows:

1. Open our Zoom meeting. 6:15 for socializing: come early to visit with friends. Since we have no program scheduled, Elena would like to use this time to allow all participants some time to tell us what you are discovering in your gardens. If you have a photo, you may share your screen. The meeting will come to order when all are finished.

2. Review minutes from March meeting included here in a separate attachment.

3. Update about chapter dues and state MoNPS dues.

NOTE> Last page here for new membership dues options.

4. Officer and committee reports, including

- A. Updates on future presentations [Nadia/Elena]
- B. Bass Pro plant sales and Earth Day [Becky]
- C. Consider the opportunity to volunteer for a Downtown planter [Michelle]
- D. Request volunteers for invasive removal on trails [Lea]
- E. Request volunteers to help with our adopted spot on S. Providence [Cindy]
- F. And consider when we can return to group activities such as a mosey to a wild area.

5. Any other new business that you might propose.

We will be participating in the Bass Pro Plant Sale to benefit MPF/GN Sat 22 May 10am to 1 pm.

It will be in the open so the public will be 'grazing'. Anyone who has had the COVID vaccine may participate; we will continue to wear masks and try to stay apart.

Our nursery will also be purchased from by Ashland GC before their sale 30 April. And we are trying to schedule a sale at Songbird Station. Starting 6 March there is preparation work to be done for sales, and nursery production continues periodically throughout June. People who come to help may choose a few plants for their own gardens. **If you want a quantity to purchase, I suggest you schedule a visit no later than 24 April. Call Becky if you can work - 657-2314 leave a message!**



Thanks to Cindy for setting up our zoom meeting.

Thanks to Michelle for proof reading.

NOW is a very good time to pull bush honeysuckle seedlings.

Save much future resources by acting NOW.

Ask for identification. There is much info on line.



GOLD LINKS

Sign up for MO Prairie Journal

<https://moprairie.org/mission/missouri-prairie-journal/>

Find links to educational webinars every Wed afternoon on the MPF site.

2020 Missouri Natural Areas Newsletter

Enjoy your 2020 Missouri Natural Areas Newsletter! This edition features articles examining Missouri's tremendous native plant diversity and its ecology. Sit back and enjoy the read as we look forward to spring's earliest wildflowers.

<https://nature.mdc.mo.gov/discover-nature/find-places-go-mo/natural-areas/natural-areas-newsletter>

Check out the **BudBurst** site and get ready to record spring sprouts, flowers and later, seeds

<https://budburst.org/>
They need your data!!!

The Naturalist's Notebook used to record phenology is available from storey.com for \$19.95. Here is the link to the calendar you can print yourself:
https://www.storey.com/wp-content/uploads/2020/02/Naturalists_Notebook_Calendar_01.pdf

VOLUNTEERING OPPORTUNITIES

Many of you have expressed interest in helping to manage the myriad of native plant gardens around town and at Columbia Public Schools as a reason to get outside and a process of education. Doing this community service is applicable to your MMN re-pay requirements. Even if you have not had MMN training, working in these gardens will help you learn how to recognize good native plants from undesirables. Lea is the leader for this volunteer group [named Volunteer of the Month by City of Columbia this summer].

Activities are announced weekly, so sign up now to know when and where to get started. Lea knows where all the gardens are and offers a schedule, received from her by email, when group weeding parties occur. If you have confidence in your knowledge of species recognition, don't be shy! – ask Lea for a garden and do what you can to remove 'bad plants' when you want to work. If you need assistance with id and technique, go with a group several times before you strike out on your own.
langtree@gmail.com call or text 864-7647.



MDC, partners offer “buy-back” program to replace invasive Callery pear trees April 20

Register and provide photo-proof of removal before April 19 to receive a free native-tree replacement.

COLUMBIA, Mo. — The Missouri Department of Conservation (MDC), in partnership with the Missouri Invasive Plant Task Force (MoIP), the Missouri Community Forestry Council, and Forest ReLeaf of Missouri, will host a Callery pear “buy-back” program in Columbia on April 20, from 3–7 p.m.

Participants must register at eventbrite.com/e/callery-pear-buy-back-in-columbia-tickets-145356020771, upload at least one photo of each Callery pear tree they cut down, select replacement tree species and a time-slot for pick-up of their replacement tree(s). Free replacement trees will be provided to registered participants at the MDC Central Regional Office, 3500 East Gans Rd. in Columbia.

Participants will receive potted replacement trees, donated by Forest ReLeaf and Forrest Keeling Nursery, in 3-gallon containers that stand between 4- and 5-feet tall.

To limit person-to-person contact, participants must register before April 19 and reserve a timeslot for the pick-up event on April 20. To be eligible for a free replacement tree, participants must submit a photo of themselves next to their cut-down Callery pear at moinvasives.org/pear-photo-submission/.

For more information about this event, including a full list of replacement-tree species offered, visit moinvasives.org/event/invasive-tree-buy-back-in-columbia/, or contact MoIP Contract Coordinator Tina Casagrand at info@moinvasives.org, or (417) 299-1794.



MPF/GN webinars available; register immediately

April 7 - [Grow Native! Master Class: Gardening on the Rocks: Scott Woodbury](#)

April 14 - [Grow Native! Webinar: Monarch Population Trends, Conservation & Climate Change: Dr. Chip Taylor](#)

Thursday, April 22 - [Special Earth Day Webinar: Keeping our Water Healthy: Native Plants and Watersheds Panel](#)

April 28 - [MPF Webinar: Bicycling with Butterflies: Sara Dykman](#)



“Talking to plants is one way of talking directly to the Great Spirit” Rosemary Gladstar

Missouriensis - On Line Now!

Sent from Dana our MONPS
President.

Great news! Not only is 2020 almost behind us, but your newest issue of *Missouriensis*, the journal of the Missouri Native Plant Society, is now available! Volume 38 (2020) of *Missouriensis* can be accessed on our website at <https://monativeplants.org/publications/missouriensis/>.

This issue is packed with fascinating topics, including current research about a new (and colorful) lichen in Missouri, a new and potentially invasive *Viburnum*, new occurrences of two critically imperiled sedges, characters to help identify a confusing group of *Desmodium*, clarification of a moss nomenclatural issue, and more.

Links to two of our Chapter Autumn Zoom Presentations

Lea's Outdoor Native Plant
Classrooms [https://1drv.ms/p/s!
!AjscdYpHSUkgecDCmcryKA
dfI1sk?e=3YWx6d](https://1drv.ms/p/s!AjscdYpHSUkgecDCmcryKAdfI1sk?e=3YWx6d)

Becky's Pollinator ID &
Garden Plants:
[https://1drv.ms/p/s!
SUkgec3nMcng4S-
pzkVU?e=qvUOJL](https://1drv.ms/p/s!AjscdYpHSUkgec3nMcng4S-pzkVU?e=qvUOJL)

(the NOTES show up in the
bottom, but you might need to
click "notes" at the bottom of
the screen to see verbiage).

St Louis chapter presentations
are posted on the state website.

To learn more about **Deep
Roots KC** or to view previous
educational webinars, visit
<https://deeprootskc.org/>

The West Ash Neighborhood Association Annual Pollinator Day this year is on Sat. 24 April from 10:00 am 'til 2:00 pm. Rain date 4/25.

Our start point for the walking loop is Montessori School at Anderson Ave. and W. Broadway. There are several homes on Anderson with many beautiful native plants for pollinators. Then visitors can continue east onto W. Ash St. and there is an award winning pollinator yard at Meadow Lane. Then south to 17 Aldeah, Brian Page's yard with the Gail Plemmons first year pollinator prairie on display. Would Hawthorn members please bring pollinator starts for us to give away to our neighbors? We don't charge for anything. Let me know who wants Southern Blue Flag starts.

TNNPS Offers Open Webinars

Why am I posting zooms offered by TNNPS? Because Many of the same habitats occur there as occur in MO. Although they are a long way east, they are on the same latitude. And Many similar species occur in both places. If you see the presenter focus on a plant you like, note the genus and look up the species of that genus that live in MO.

Webinar date/time: Every third Tuesday; 6:30-7:30pm **CT**
No pre-registration required, no cost to attend.

More info and join link: <https://www.tnps.org/wp-content/uploads/2021/03/2021Seminars.pdf>
Webinar presented by [Tennessee Native Plant Society](#)

Duration: 1 hour

What will you learn? Speakers are drawn from their most knowledgeable membership, from professionals across the state, and from the professors and students studying Tennessee native plants. A range of topics will be covered that may include plants that are currently blooming, native plants in your yards, current research on native plants, protections for native plants, and so much more.

Presenters:

April 20: Dr. Larry Pounds, Plants of the Cumberland Trail
May 18: Milo Pyne, Native Plants of the Cedar Glades
June 15: Cooper Breeden, Tennessee Plant Conservation Alliance
July 20: Meredith Clebsch, Native Plant Propagation
August 17: Bart Jones, Pollination Strategies of Native Orchids
September 21: Pandi Upchurch, Edible Natives
October 19th: TBA
November 16: Margie Hunter, Invasive Plants of Tennessee
January 18: Dave Walters and Dr. Cindi Smith-Walters, Winter Plant Identification

30/30 PLAN

Released through MPF Newsletter 9 Feb 2021

https://static1.squarespace.com/static/5e46ffc2fdded45a6c5577ea/t/5f35766a7917ff479b62e26b/1597339249363/30x30Factsheet_Branded.pdf

WASHINGTON, D.C. (Jan. 27, 2021) – The Land Trust Alliance, a national land conservation organization working to save the places people need and love by strengthening land conservation across America, today welcomed the United States president's executive order that commits to the goal of conserving at least 30 percent of our lands and oceans by 2030. The following statement can be attributed to Andrew Bowman, president & CEO of the Land Trust Alliance:

President Biden's executive order calling for "conservation of at least 30 percent of the U.S. land base by 2030" and a "pause on entering into new oil and natural gas leases on public lands or offshore waters to the extent possible." These orders signal a welcome shift toward prioritizing environmental justice and tackling climate change with the full weight and all the tools of the federal government. This is an audacious and timely conservation challenge that requires the conservation of millions of acres of land in private ownership. The nation's land trusts are ready and willing to help private landowners conserve their lands at this ambitious scale.

"With a new sense of urgency, the land trust community will do its part together with farmers, ranchers, foresters, fishermen, tribes, states and local officials across the country to help make the 30x30 goal a reality."

Insecticides Found in Milkweed Samples

Synopsis from *Xerces Society Wings* 43:2, Fall 2020, P30.

They collected and tested 225 samples of milkweed from California Central Valley [ag field edges, wild areas, plants from nurseries, suburbs] during June of 2019. Retail nurseries and ag field samples had more insecticides. They found 64 different chemicals. 32% of the samples contained levels of harmful insecticides known to harm butterflies. Five were contained in 80% of all samples. Two which were found in 90% of the 225 samples: chloranthraniliprole and methoxyfenozide.

[Ed. Note] PLEASE!!

Take this data into consideration when purchasing plants. If you don't get them from a reputable native plant dealer – please consider propagating natives from local-sourced wild seed or *in situ* [seed in ground].



Link to

Braiding Sweetgrass

by Robin Wall Kimmerer. If you want to assist Robin's cause with a purchase of one or more of her books, please do. If you cannot afford this purchase at this time, this is a gift of a free download:

[https://pdfforall.com/wp-content/uploads/2020/08/Braiding-Sweetgrass-PDFORALL.COM .pdf](https://pdfforall.com/wp-content/uploads/2020/08/Braiding-Sweetgrass-PDFORALL.COM.pdf)

HUMMERS

Hummingbirds will return in about 2-3 weeks. Be on the lookout for the early scouts and have a feeder ready. Do not hang in the sun – it will spoil fast.

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:

- 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, Malissa Briggler:** malissa.briggler@mdc.mo.gov



Pussytoes

Text and photos submitted by Elena

My husband and I moved onto 6 acres in Columbia in January 2011 on what had been part of a farm north of town until this area on Oakland Gravel Road was incorporated into town sometime in the early 1900's. I started planting native plants including purple cone flower *Echinacea purpurea*, my absolute favorite, but we really did not expect to find many natives growing here because this part of town had been farmed and is now covered in invasive honeysuckle. We have spent a lot of time cutting and digging out the honeysuckle.

However, each spring we started noticing patches of little white flowers with little white butterflies and we started mowing around them. After I met Nadia Navarrete-Tindall at a butterfly event, she stopped by to identify the little flowers. To my happy surprise, she identified them as native wildflowers, specifically Pussytoes. The name very accurately describes these very soft little flowers with soft fuzzy leaves and short stems standing no more than 8 or 10 inches tall.

Missouri Wild Flowers by Edgar Denison (MDC 2017) identifies Pussytoes as *Antennaria parlinii* or *Antennaria plantaginifolia* and places them in the *Asteraceae* family. This book explains they grow on "dry, rocky, often wooded slopes on acid soils" and are distributed statewide. Denison points out the flowers can bloom in crimson in addition to the white form I have. Denison also explains the name accurately reflects the fuzzy little clusters of flower heads. According to Denison, they bloom from April through June. On our property, we see them blooming starting in mid to late April and growing on rather rocky, well drained, sloping areas. There is one very large patch in full sun that blooms heavily



and for a long time - several weeks. There is a smaller patch in shade under an area covered in walnuts, oaks, and hickories that blooms but is not as showy or as profuse. I am hoping the patches of Pussytoes will keep spreading on both hillsides because when they are blooming they are amazing. Feel free to drive by sometime in late April and you can see them from the road.

Attached are photos from the spring of 2019 when they were blooming on April 22.



Sanguinaria canadensis
BE photo

[PCA] ARTICLE: **Bird numbers plunge as deforestation changes mating songs**

*Valerie Yurk, *E&E News*, March 17, 2021

*Link to article:

https://www.eenews.net/greenwire/2021/03/17/stories/1063727717?utm_campaign=edition&utm_medium=email&utm_source=eenews%3Agreenwire

*Link to original article: <https://royalsocietypublishing.org/doi/10.1098/rspb.2021.0225>

*Summary: Bird declines due to deforestation also change how survivors sing, according to **research** published in *Proceedings of the Royal Society B*. Birds learn to sing by associating with older members of their species, so birds decline as juveniles fail to learn songs that will attract mates. The study found that where adult birds are rare, the endangered regent honeyeater is singing simplified or incorrect songs. Twenty-seven percent of wild males studied sang songs that differed from the regional norm. Twelve percent of young males found in areas where honeyeaters are rarer sang "totally incorrect" songs, according to the study. "It seriously impacts their ability to communicate," Australian National University researcher and lead author Ross Crates said. "Females will avoid males that sing unusual songs."

Essay by Margaret Renkl, NY Times, 26 February 2021

Link to full article: <https://www.nytimes.com/2021/02/26/opinion/winter-gardening-wildlife.html>

[Ed Note: Renkl's articles are highly recommended – nature plus philosophy.]

Excerpt: I grieve what is happening to the natural world, and I understand perfectly well that my own efforts to help are far from enough. But when I watch a bluebird introducing his mate to the nest box I've installed for them, it's impossible to give up. When the tiny hummingbirds make it back from far across the Gulf of Mexico, it's impossible to give up. And a seedling muscling through the soil, carrying its old, sleeping self into the light, never fails to give me hope. It never, never, never, never fails.



Salix humilis flowers
BE photo

Submissions for Next Petal Pusher

Submitted by Michelle Bowe, Petal Pusher Editor

[Ed. Note: when I was PP editor, I requested identical format. Very few followed. It takes hours of extra time to "fix" submissions that do not follow requested format. PLEASE LOOK at Michelle's requested format and do your best to follow it when sending your submissions. As a college professor, Michelle does not have the time and focus that I had.]

Please consider making a submission for a future Petal Pusher! Here is some information for submissions:

A. The theme for the next issue is "Potential Emerging Invaders." Other submissions are also welcome!!

B. Send ONE email saying "here is my contribution on _____," and **attach** (don't embed) the following:

1) an article in Word format with photo captions at the end (no photos imbedded in the Word document) and your name in the text.

2) 2 to 3 images, preferably in JPEG format

C. Use only one space between sentences

D. Even short notes with pictures would be great!

E. **Send to: mbowe@missouristate.edu**



Claytonia virginica
BE photo

200 PLANTS TO FEED POLLINATORS This is the last time I will post this list; you might want to file it.

Be warned a few of the species of *Solidago* and *Eupatorium* are invasive weeds. **It is best to be familiar with all species in these genera.**

Genus	common	local
Agastache	Anise Hyssop	Yellow Giant Hyssop Agastache hepetiodes
Symphotrichum	Aster	Probably 40 species
Monarda	Bee balm	<i>M. fistulosa</i> sun wet, <i>M. bradburniana</i> half-sun med-dry
Rudbeckia	Black-eyed Susan	<i>R. hirta</i> common annual and 3 perennials <i>R. subtomentosa</i> , <i>R. missouriensis</i> , <i>R. fulgida</i>
Liatris	Blazing star	<i>L. pycnostachya</i> , <i>squarrosa</i> , <i>aspera</i> are the best for local gardens
Verbena	Blue vervain	<i>Verbena hastata</i> for wet soil, <i>V. stricta</i> for dry soil
Coreopsis	Coreopsis	<i>C. lanceolata</i> , <i>C. palmata</i> , <i>C. tripteris</i> perennials and <i>C. tinctoria</i> annual, plastic
Veronicastrum	Culver's root	<i>V. virginicum</i> in wetlands, moist sub soil
Silphium	compass/rosinweed	<i>S. integrifolium</i> , <i>S. perfoliatum</i> , <i>S. lanciniatum</i> , <i>S. terebinthinaceum</i>
Scrophularia	figworts	<i>S. marilandica</i> , <i>S. lanceolata</i>
Solidago	goldenrod	<i>S. rigida</i> , <i>S. speciosa</i> , <i>S. nemoralis</i> , <i>S. missouriensis</i> , <i>S. petiolaris</i> [NOT <i>S. altissima</i>]
Grindelia	gumweed	
Vernonia	Ironweed	<i>V. baldwinii</i> , <i>V. missurica</i> , <i>V. fasciculata</i>
Eupatorium	Joe Pye weed	<i>E. purpureum</i> , <i>E. coelestinum</i> [NOT <i>E. serotinum</i> , <i>E. perfoliatum</i> <i>E. altissimum</i>]
Lobelia	Lobelia	<i>L. cardinalis</i> ; wet. <i>L. syphilitica</i> ; moist. <i>L. inflata</i> ; moist annual.
Asclepias	Milkweed	<i>A. incarnata</i> sun wet; <i>A. tuberosa</i> sun med; <i>A. purpurascens</i> moist part-shade; <i>A. sullivantii</i> sun wet; <i>A. verticillata</i> plastic to habitat
Pycnanthemum	Mountain mint	<i>P. tenuifolium</i> , <i>P. virginicum</i> both in moderate habitats
Cirsium	Thistle	<i>C. altissimum</i> . Touchable leaves, white leaf underside
Penstemon	Penstemon	<i>P. digitalis</i> July, <i>P. pallidus</i> May
Dalea	Prairie clover	<i>D. purpurea</i> [drier], <i>D. candida</i> [wetter]
Echinacea	Coneflowers	<i>E. pallida</i> [dry upland]; <i>E. purpurea</i> [moist open shade]; <i>E. angustifolia</i> [dry glade]; <i>E. anomalis</i> [yellow, very dry glade]
Eryngium	Rattlesnake master	<i>E. yuccafolium</i> sun moist soil
Salvia	Blue sage	<i>S. azurea</i>
Prunella	Selfheal	<i>P. vulgaris</i> EUR common across N. Amer.
Helenium	Sneezeweed	<i>H. autumnale</i> , disturbed wet soil.
Tradescantia	Spiderwort	<i>T. ohiensis</i> , <i>T. virginiana</i> .
Helianthus	Sunflower	Probably 30 species in Prairie Region; some annual, some perennial.
Geranium	Geranium	<i>G. maculatum</i> = perennial; part sun, moist. Annual in moist broken soil.
Baptisia	Indigo	<i>B. alba</i> = white, peren, moist. <i>B. australis</i> = blue, peren, moist. <i>B. bracteata</i> = cream, peren, dry. <i>B. sphaerocarpa</i> = yellow, peren, rhizomatous
Verbesina	Wingstem	<i>V. helianthoides</i> common, <i>V. alternifolia</i> , <i>V. virginica</i> = river bottom
Blephelia	Woodmint	<i>B. ciliata</i> moist, part shade
Chamaecrista	Partridge pea	[also Senna] <i>C. fasciculata</i> annual, disturbed soil, <i>C. marilandica</i> peren, moist part shade.

WOODY

Rubus	Blackberry/raspberry	dewberry, blackberry, wild raspberry
Robinia	Black locust	<i>R. pseudoacacia</i>
Vaccinium	Blueberry	Any of possibly 40 species over North America
Cephalanthus	Buttonbush	<i>C. occidentalis</i> open sun moist soil/wetlands
Amorpha	False indigo	<i>A. fruticosa</i> , large peren bush, moist sun. <i>A. canescens</i> leadplant. Short upland peren.
Ribes	Golden current	<i>R. aureum</i> rhizomatous perennial
Cercis	Redbud tree	<i>C. canadensis</i>
Rosa	Native roses	<i>R. setigera</i> large spreading/climbing bush. <i>R. palustris</i> moist soils/wetlands aggressive <i>R. virginiana</i> and <i>caroliniana</i> small rhizomatous/colonial
Amelanchier	Serviceberry	<i>A. arborea</i> is most common here
Spiraea	Meadowsweet	<i>S. tomentosa</i> , <i>S. alba</i> , widely native, however few are indigenous due to wetland destruction.
Liriodendron tulipifera	tulip poplar	River-bottom/wetland; large spreading shade tree
Prunus	Plum/cherry/almond	<i>P. americanus</i> , <i>P. mexicana</i> , <i>P. serotina</i> =black cherry, <i>P. persica</i> =peach, <i>P. virginiana</i> =chokecherry
Salix	Willow	River bottom/wetland shrub; smallest = <i>S. humilis</i> ->



Topics for This Years' Petal Pusher

the state MONPS newsletter

You don't need to be an expert, but if you have good repeatable experience as a naturalist on any of these subjects, you are welcome to offer your knowledge to the rest of us.

If we have members who are experts on any of these topics, Michelle Pruitt [on masthead] is willing to do an amateur proofread for you if that would be helpful.

The submission deadline for the May/June issue is 20 April. ALWAYS - 20th of even numbered months. If you don't understand subjects, parameters, or submission format, contact Michelle Bowe, PP editor MBowe@MissouriState.edu.

- Focus on a Plant Family could be used every year. Louise Flenner of Hawthorn chapter wrote a good article on this topic in 2019. Would be good to study that as a template.

- Potential Emerging Invaders. **Have you seen a new plant invader?** Someone from MoIP as contributor; Malissa Briggler volunteered. Any one of us could study invasive plants; MPF Journal featured invasives during 2020. Just search 'invasive plants' and pick one to report on.

- Favorite Natural Areas. Suggested to also have chapters solicit articles from their members. This means YOU can write about your favorite Natural Area

- **Historical Botanists.**

- Better Know a Genus. These are species accounts. You observe/research a species or genus and describe the whole life cycle including preferred habitat and vectors/predators.

Regular Recurring Columns:

Conundrum Corner Contributors needed!

Invasive Tip of the Month Tips to identify and eradicate invasives, with a different species in each issue. Contributors needed!

Other Recurring Columns: **Casey's Kitchen** Casey Burks

Name Change of the Month Justin Thomas. Other volunteers welcome.

Poetry Corner or Quotation Corner Send suggestions for poems or quotes for inclusion. Note that for poems, we must have permission from the publisher.

Where are we going Features we will see on the next field trip. Malissa Briggler?

And here's where you can become newsletter famous by submitting your questions: <https://monativeplants.org/ask-a-question>

Ask a question Questions from website, answered. Facilitated by Jerry Barnabee.

Please Step Forward For Service Membership and Service

Please contact one of the officers to volunteer a little time to a very good environmental and educational service. We need people to serve as officers, to grow plants for fundraising, to man our information booth at events such as Earth Day and Bradford Plant Sale, and to care for native gardens in public places. We send communications and the newsletter by email unless you opt for and pay a print and postage surcharge.

State Membership Level (check all that you request):

____ Student \$5
____ Goldenrod \$10
____ Sunflower \$25
____ Blue Bell \$50
____ Blazing Star \$100

State Life Membership: contact us via website [monativeplants.org], navigate to

"Ask a Question": Life Time Memberships)

____ Surcharge for paper state Petal Pusher by mail \$10
Minimum required annual membership per household is \$10 for students or \$15 for non-students [state+chapter]

Chapter membership:

____ Hawthorn Chapter \$5

Hawthorn requires chapter newsletters by email = no charge

____ Hawthorn life membership \$120

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

Send check and this form to:

Paula Peters, 2216 Grace Ellen Dr., Columbia, MO 65202

MEMBERSHIP FORM

Missouri Native Plant Society-Hawthorn Chapter
Fiscal year is July 1 through June 30.

How were you attracted to join MONPS?

Name _____

Address _____

Phone: Evening _____

Day or Cell _____

Required

Email: _____

As of July 2018, Petal Pusher printed on paper in grayscale, sent by post, will cost an additional \$10 more than standard membership. Email delivery brings you color photos, and instant delivery. It saves natural resources, pollution, and MONPS' and your money.