

July–August 2004

1979 - 2004 Happy 25<sup>th</sup> Anniversary

Vol. 19, No. 4

## Missouri Native Plant Society

### July

- 10** Sat., 5:00 PM  
Osage Plains **Special Native Plant Tour** at the home of Dale Jennings on Rt 7, about 11 miles east of Clinton or one mile north of Coal. Hamburgers and hot dogs will be prepared after the tour by Dale and Rick Jennings. Everyone should bring a dish to complete the meal.
- 12** Mon., 7:00 PM  
Columbia **Regular Hawthorn Meeting**, Unitarian Church, 2615 Shepard Blvd.
- TBA  
Columbia **Field Trip to the Prairie Garden Trust** to be announced. Call Paula or Nadia Navarrete-Tindall, 573-289-2018, <navarrenten@missouri.edu> for details.
- 28** Wed., 7:30 PM  
St. Louis **Nels Holmberg Will Present A Milkweed Workshop** at the regular St. Louis Chapter Meeting. There will be a section on milkweed herbivores, growing milkweed plants, their strange body parts, keying them out and a slide show of what species are in Missouri. Bring your own samples and a hand lens. Meet at the Powder Valley Conservation Nature Center, 11715 Cragwold Road, Kirkwood (off Geyer Road, between Watson and Big Bend).

### August

- 1** **Due date for material for September–October *Petal Pusher*.** Please send meeting, field trip information and articles (typed double-spaced), photographs and graphics to the editor by this date. Send E-mail to: Betty Walters, MONPS Newsletter Editor, at <bettyluvsinsects@yahoo.com>.
- TBA  
Columbia **Field Trip to Otto Fajen's to See the Cardinal Flowers** to be announced. Call Paula or Nadia for details.
- 25** Wed., 7:30 PM  
St. Louis **Regular St. Louis Chapter Meeting.** Speaker and topic to be announced. Meet at the Powder Valley Conservation Nature Center, 11715 Cragwold Road, Kirkwood (off Geyer Road, between Watson and Big Bend).



Have A Safe and Happy  
Summer!



# MONPS Members' September Field Trip Schedule

**ALL MISSOURI NATIVE PLANT SOCIETY MEMBERS AND FRIENDS ARE INVITED** to attend our last field trip of the season as we visit the western Missouri prairie region of rugged loess river and bluff hills.

**STAR SCHOOL HILL PRAIRIE CONSERVATION AREA** is dry prairie on steep loess mounds in the Western Section of the Glaciated Plains Natural Division. The mounds support many prairie plants that are rare in Missouri, but more common to the western Great Plains: yucca, downy painted cup, blazing star, skeleton plant, blue grama, hairy grama, large beard-tongue, and scarlet gaura. Part of the area is a Designated Natural Area, and we can climb to the hilltops for a scenic view of the Missouri River Valley below.

**SQUAW CREEK NATIONAL WILDLIFE REFUGE** lies in the Missouri River floodplain and is mostly gumbo soil overlaid with rich silt. The area was once a large marsh with meandering creeks that were straightened for agricultural drainage. Here we will find some of the last remnants of native floodplain prairie.

**JAMERSON C. McCORMACK CONSERVATION AREA**, located near the southern end of Squaw Creek National Wildlife Refuge, is both prairie and forest on rugged loess mounds of the Western Section of the Glaciated Plains Natural Division. The prairie is on deep Napier and Hamburg soils, harbors plants typical of the Great Plains, and is jointly owned by the Missouri Department of Conservation and The Nature Conservancy.

**WE HOPE TO SEE YOU IN THE PRAIRIE THIS AUTUMN!**

## ITINERARY

**FRIDAY, 17 SEPTEMBER 2004** **7:00 to 9:00 PM** – Evening get-together at MWSC at the Evan R. Agenste Science and Math Building. The room number will be posted at the entrance. Dr. John Rushin, Chair Department of Biology Missouri Western State College, is our speaker, and the Star School loess hill prairie is his topic.

**DIRECTIONS TO MWSC:** From I-29, exit at Fredrick Blvd. and turn left (west) onto Fredrick Blvd., take the first left after the interstate which is Woodbine, go south on Woodbine to the second major intersection which is Mitchell Ave. Turn left (east) on Mitchell Ave. The college is on the left just past the interstate. The campus is on a single circle drive and the Science building is on the far side of the circle from Mitchell Ave so it does not matter which of the three entrances from Mitchell Ave is taken or which way one goes around the circle. There is parking available across the street from the Science building in Parking Lot H. Download a campus map from the college website at: [www.mwsc.edu].

**SATURDAY, 18 SEPTEMBER** **8:00 AM** – Leave Mound City Super 8 parking lot after signing field trip waiver sheet. Drive northwest on I-29 for about 45 minutes to second Rockport exit (intersection of Hwy 136). Go east on Hwy 136 for about 1.75 mi to intersection with Hwy 275. Turn left onto Hwy 275 and go north for about 14 mi to second parking lot for Star School Hill Prairie Conservation Area on right side of Hwy.

**9:15 to 11:00 AM** – Field trip on Star School Hill Prairie CA led by Dr. John Rushin.

**11:00 AM** – Leave Star School Prairie, driving back south on Hwy 275 to Rockport, then south on I-29 to about 4.5 mi south of Mound City to intersection with Hwy 159. Go west on Hwy 159 for about 2.5 mi to entrance to Squaw Creek National Wildlife Refuge. Take drive to area headquarters.

**12:15 to 1:15 PM** – Eat picnic lunch (which you provide) at picnic area near the Refuge headquarters. If you wish, you may stop for lunch at Mound City.

**1:30 to 4:30 PM** – From Refuge picnic area near headquarters, Paul McKenzie leads us to several interesting areas on the Refuge.

**6:00 PM** – Quarterly Board Meeting at Squaw Creek National Wildlife Refuge auditorium. **All members are invited!**

**SUNDAY, 19 SEPTEMBER** **8:00 AM** – Those wishing to participate in a field trip to Jamerson C. McCormack Loess Mound Natural Area (off Hwy 159 near south end of Squaw Creek NWR) will leave Super 8 parking lot.

## LODGING

MOUND CITY SUPER 8, 109 W. 8TH STREET, TELEPHONE 660-442-4000

\$55.77 PER SINGLE ROOM; \$57.92 PER DOUBLE ROOM

A 10% discount will apply if at least 10 rooms are reserved by calling the motel. A town festival is going on that weekend, and they do expect to fill. **Call soon!**

**DIRECTIONS:** From I-29 take the Hwy 118, Mound City Exit, turn right on Hwy 118, then take the first right onto Hwy 59, then take the first right onto 8th Street.

# Petals & Wings

Betty Walters, Editor



## TO ALL OF YOU WHO SHARE YOUR DISCOVERIES WITH ME, SO THAT I MAY PASS THEM ON OUR MEMBERS, "THANK YOU!"

**HERBIVORE EMERGES**—Jane C. Walker, Tyson Research Center, has discovered the identity of one of the herbivores munching on the Garlic mustard, *Alliaria petiolata*, at the Center. Jane successfully raised the small green caterpillars, with yellow dorsal and lateral side lines, into their pupal stage and kept watch over them until they emerged as adult European Cabbage butterflies. "Sweet justice," she said to me at one of the recent St. Louis Chapter meetings; indeed it is.



**Common Milkweed, *Asclepias syriaca***, is a vital host and nectar plant to migrating Monarch butterflies, as well as many other insects; its aromatic pink flowers attract many late spring garden visitors, like this Great spangled fritillary, *Syeyeria cybele cybele* **photographed by MONPS Member Martha Younkin.** Great photo, Crocodile!

## Welcome to New Members

We are happy to welcome these new and returning members to the Missouri Native Plant Society. We hope you will join us soon at some of our upcoming meetings and field botany trips.

Anne Kettler, St. Louis

Laurie and Alan Hahn, Columbia

Michele Disney, Van Buren

Janis Londe, Webster Groves

Gladys and Ed Kullman, O'Fallon

Susan Krueger, Lee's Summit



According to J. Richard Heitzman's field guide *Butterflies and Moths of Missouri*, *Artogeia rapae* was accidentally introduced in 1860 from Europe into Quebec. In 1877, it was reported in Missouri and during 1883 was considered a pest on cabbage. "By 1890 it was reported infesting over a dozen plant species in the state. To this day it remains a pest of cabbage and other cultivated Brassicaceae."

It seems Garlic mustard does have an old enemy on our continent; perhaps, the European Cabbage butterfly will prove useful in containing this aggressive invasive on our shores, as well. *Kudos Jane!*

**BOBBY PINS FOR VERBENA**—No, you won't find Bobby Pins in any garden stores, but they are in my garden toolbox as I head out to my Rose verbena. *Verbena canadensis*, Rose verbena, is one of my easy to grow, and somewhat hardy perennial. It's a low grower, seldom over 12" tall, and does have a tendency to spread out. Rather than allow it to move on its own, I take the spreading branches and pin them down with large Bobby Pins in the direction I need to fill. In St. Louis, I have a 70% survival rate; thus, I need to direct it into the areas that need a little color. This is a great plant for smaller butterflies and makes a nice border for sidewalks. You can use the same technique for other verbenas. ~ Tom Terrific. *Tom, you are terrific!*

Reprinted from "ButterflyGardening" a free Ezine featuring tips and articles related to butterflies and butterfly gardening. Subscribe at <http://www.butterflygardening.org>

**THE BILL TO MAKE BIG BLUESTEM THE OFFICIAL GRASS OF MISSOURI** did not make it through the legislature again this year. It passed the House and was out of committee in the Senate, but died on the Senate calendar. I expect it will be submitted again next year but can't say for sure. We'll have to struggle through another year now without an official grass. ~Tim E. Smith, Botanist, Missouri Department of Conservation. *Thanks for keeping us in the loop, Tim!*

## Board Members Are Elected By Acclamation Proclamation

By Kathy Thiele, MONPS President

Every year, MONPS members are given the opportunity to nominate someone for election to the Board of Directors.

This year the positions up for re-election are those of board members Bruce Schuette and John Oliver. Because both Bruce and John have offered to serve again and because no other nominations have been received, Bruce and John have been re-elected by acclamation.

While serving on the Board has its rewards, it does require a commitment of time and effort. So if you happen to see these guys, be sure to give them a pat on the back and a big "Thank you!" for volunteering to serve again.

# Caney Mountain Conservation Area April 2004



Collared Lizard in Perfect Form  
Photo by Bruce Schuette



*Podophyllum peltatum's* Radiant Blush  
Photo by John Oliver



Bob Siemer prepares to take a photograph of Lia Bollmann's second reptile catch of the day.  
Photo by Kathy Thiele



Stone Step Climb to Leopold's Cabin  
Photo by Kathy Thiele



Lia Bollmann and Betty Walters give this State Champion Black Gum a hug of thanks—for being here, of course!  
Photo by Kathy Thiele

**Leopold Cabin**—In 1939, Starker Leopold was hired by the Missouri Conservation Department. As a zoology doctoral student at the University of California-Berkeley, he lived in this cabin on Caney Mountain while conducting his study of wild turkey, outlined a decade before by his famous father Aldo Leopold. *The Nature of Heritable Wildness in Turkeys*, the culmination of Starker's Missouri fieldwork, was published in 1943.

## Caney Mountain Conservation Area April 2004

Plant List By Nels Holmberg and Rex Hill

### Long Glade

Wild hyacinth *Camassia scilloides*  
*Carex crawei*  
Bristle-leaved sedge *Carex eburnea*  
Mead's sedge *Carex meadii*  
Indian paintbrush *Castilleja coccinea*  
Bastard toad-flax *Comandra umbellata*  
Shooting star *Dodecatheon media*  
Rose verbena *Glandularia canadensis*  
Yellow star grass *Hypoxis hirsuta*  
Ashe's juniper *Juniperus ashei*  
Leavenworthia *Leavenworthia uniflora*  
Hoary puccoon *Lithospermum canescens*  
Wood rush *Luzula campestris* var. *bulbosa*  
American aloe *Manfreda virginica*  
False garlic *Nothoscordum bivalve*  
False gromwell *Onosmodium molle*  
Cancer root *Orobanche uniflora*  
Gensing *Panax quinquefolius*  
Purple cliffbrake fern *Pellaea atropurpurea*  
Prairie parsley *Polytaenia nuttallii*  
Early buttercup *Ranunculus fascicularis*  
Trilobed violet *Viola palmata* (*triloba*)

### Valley near Leopold Cabin

James's sedge *Carex jamesii*  
*Carex timida*

### Ridge Runner Trail

Ground plum *Astragalus crassicaarpus* v. *trichocalyx*  
Supple-jack *Berchemia scandens*  
Calamint *Calamintha* (*ex-Satureja*) *arkansana*  
*Carex crawei*  
American smoke tree *Cotinus obovatus*  
Fimbristlis *Fimbristylis puberula* var. *pub.*  
Ashe's juniper *Juniperus ashei*  
Leavenworthia *Leavenworthia uniflora*  
American aloe *Manfreda virginica*  
Purple cliffbrake fern *Pellaea atropurpurea*



*Dodecatheon media*



*Glandularia canadensis*



*Hypoxis hirsuta*



*Leavenworthia uniflora*



*Orobanche uniflora*



*Hydrastis canadensis*

THE RETURN OF MONPS TO CANEY MOUNTAIN'S LONG GLADE was not as memorable as a 1991 visit. During the earlier visit, the group enjoyed an extended rain storm, which followed them for a soaking slow ride back from the glade on an open trailer.

This year's trip in perfect weather will be remembered for a plethora of interesting plants, such as Indian paintbrush, cancer root and Leavenworthia. The real show stopper of this hike was a *Croraphytus collaris collaris* (See Bruce Schuette's photo, Page 4).

After a morning on the glade and a picnic lunch at a nearby scenic overlook, the wooded area around the Leopold Cabin was explored. Here Paul McKenzie led the group to the state's newly found (on the previous day) second population of the sedge *Carex timida*, and demonstrated how to distinguish it from its common close relative, *Carex jamesii*.

The Sunday morning field trip was along Ridge Runner Trail in the Mark Twain National Forest. Several short stops were made at overlooks, where more glade areas were explored. Ashe's juniper and American smoke tree were noted here.

Our last stop was at the Pinnacle area, where John Oliver explained the pox-marked hilltop with tales of the woman who had devoted her life to digging for gold on the site.

~ Nels Holmberg



# Gardening With The Natives



**EDITOR'S NOTE:** The Society is pleased to announce the arrival of a new column in the *Petal Pusher* written by gardeners who possess a passion for Missouri's diverse native flora. Many thanks to Scott Woodbury, Shaw Nature Reserve, for this homage to one of our State's most renowned native gardener's life; the Missouri Botanical Garden for allowing us to display his artwork.

## Edgar Denison's Legacy in A Patch of Blue-eyed Mary

By Scott Woodbury

Blue-eyed Mary, *Collinsia verna*, is a native annual that germinates in early winter, enduring freeze and thaw before blooming in spring. Its bloom spans the month of April when Virginia bluebells, yellow violet, wild geranium, wild sweet William, and false rue anemone are each making colorful contributions to shady Missouri creek and river-bottoms. It grows here naturally in carpets where fall flooding carries away leaf litter, allowing seeds to germinate successfully.

In the Whitmire Wildflower Garden at Shaw Nature Reserve, Matt Broderick, a horticulturist at SNR, attempts to mimic natural flooding by raking leaves off of the known patches in early winter to ensure germination. Soon after, he watches for winter seedlings to sprout from November through January. They have two round dark-green seed leaves with purple streaks and freckles. On subzero days they freeze like lettuce in an old refrigerator; then thaw, unharmed, like cold hands and noses brought close to a wood stove on a winter day.

By late May this spring, Matt and coworker Terri Brandt, a horticulturist at SNR, have collected enough Blue-eyed Mary seed in the Whitmire garden to store, share, and also to sprinkle back into the woods. Some seed is shipped to colleagues, first come-first serve. The rest will be hand-sown in June and hopefully, develop into new populations the following winter along Brush Creek Trail or in the Whitmire Wildflower Garden.

In 1992 the Whitmire garden received its first Blue-eyed Mary seed. It came from Edgar Denison, a modern Johnny Appleseed who maintained a Blue-eyed Mary patch at his Kirkwood home, where he could easily collect seed to give away. From shirt-pockets full of seed, Edgar sowed Blue-eyed Mary along Hidden Valley and the River Trails at Shaw Nature Reserve and at Emmenegger Nature Park in Kirkwood.

He shared seed for the patch existing in the English Woodland Garden at Missouri Botanical Garden and for other patches growing at the homes of friends and neighbors who were given or snatched seed from beneath the bows of the old white oak by his sidewalk on Adams Street.

There were several other plants that Edgar passed around St. Louis—including Rosy turtlehead, Southern blue flag iris, and pink New England aster, to name a few. They were usually given with the appropriate pedigree to a good home and with strict planting instructions. Edgar once dug up a gift tree at a neighbor's to see if it had been planted correctly. It was, and he planted it back satisfied that his instructions were followed.

He rescued southern blue flag iris *Iris virginica var. shrevei* from a wetland at the intersection of Interstate 44 and Highway 141 in Fenton before a highway construction project. That very iris has been preserved and will be reintroduced along I-44 by the Henry Shaw Ozark Corridor Foundation to mark their new sign at the I-270 intersection in the Spring of 2005.

Similarly, Edgar rescued rose turtlehead *Chelone obliqua* near Hannibal, Missouri after a plough cut through the rare patch leaving roots exposed and stems buried. Subsequently, this species has been reintroduced to a number of natural areas and has become so common among St. Louis gardeners that it is readily available at native plant nurseries.

Other pedigreed plants which Edgar shared with Shaw Nature Reserve staff include Rose mallow *Hibiscus militaris* from DeSoto, Copper Iris *Iris fulva* from Mingo Wildlife Refuge, Cardinal flower *Lobelia cardinalis* collected along the Meramec River in Pacific, *Oenothera triloba* from St. Francis State Park, and multi-colored New England asters *Aster novae-angliae* from a prairie near Hannibal.

Edgar was born in Stuttgart, Germany in 1904 and immigrated to the United States in 1927. He spent a lifetime enjoying wildflowers, first as a student in German; then, as an amateur botanist leading hikes in Missouri. He later became one of Missouri's most celebrated wildflower enthusiasts through his popular field guide, *Missouri Wildflowers*. Denison, who died in 1993, was also a pianist, master gardener, and artist who drew and painted hundreds of Missouri Wildflowers.

His artwork has been enjoyed by many at exhibits and is now available in a series of note cards at bookshops located at Shaw Nature Reserve in Gray Summit, and at MDC nature centers in St. Louis, Jefferson City, Springfield, and Kansas City.

Few people have created such a legacy in a lifetime. Fewer still have touched the lives of so many people through so many instruments playing each one exceptionally.



## WILDFLOWERS HAVE ALL THE ANTHERS



## New T-Shirts Are Hot Off The Press

By Sue Hollis

We have new T-shirts and they look good!

Remember the great design Ann Grotjan did a few years ago on our "Celebrate Diversity" shirts, the one with the big jack in the pulpit in the middle? Well, she's done it again!

The new 100% no-shrink cotton shirt has a six-color wreath of native plants on a natural (sort of sand) background. Under the wreath of Oak and Virginia creeper foliage, dogwood and hop hornbeam flowers and leaves, grass, fern and pixie cups are these words of wisdom from slogan winner Robin Kennedy, "Wildflowers Have All The Anthers." The MONPS logo is shown on the left sleeve.

These treasures are available in sizes Small, Medium, Large and Extra-Large for only \$15 each—no tax. You can obtain yours from your local Chapter Representative, or by contacting Sue Hollis, <ferngro@att.net>, 3311 Gillham Rd, Kansas City, MO 64109. Mailing will cost an extra \$3.50 for one shirt and \$1.00 for each additional one. If your group wants shirts to sell, contact Sue for information.

## \$\$\$\$ DUES ARE DUE \$\$\$\$

By Ann Earley, Membership Chair

Membership renewals for the July 2004-June 2005 year are now due. Please check the top line of your mailing label. If it shows the date 20040630, your dues are now payable.

To renew, please use the renewal envelope enclosed, or use the form on the inside back page of this newsletter. Please remember to complete your contact information and your society and chapter dues preferences.

If you have questions about your membership status, please contact Ann Earley (see back page for contact information).

We value our members and urge you to renew today!

## \$\$\$\$ DUES ARE DUE \$\$\$\$

## BREC Works to Maintain Vegetative Connections With Native Plantings

By Nadia Navarrete-Tindall

Bradford Research and Extension Center (BREC) is a 591-acre University of Missouri farm where agricultural experimental plots are a common sight; however, the BREC is also prime habitat for many migratory and resident birds. Tim Reinbott, the superintendent of the Center, is interested in maintaining and restoring habitat for quail and other wildlife.

We recently obtained funding from the MDC (Small Wildlife Grants) and the MOBCI in cooperation of Columbia Audubon, the University of Missouri, the Hawthorn Chapter of the Native Plant Society, Community Storm Water Project and private landowner George Hobson to conduct plant inventories at the Center and the prairie and wetland remnants on Mr. Hobson's land.

Our main objectives are to identify and determine the quality of these remnants and to maintain vegetative connections between BREC and nearby farms. Mr. Reinbott wants to see his farm as a model where agronomists, botanists, bird watchers, farmers, and homeowners can coexist to protect wildlife habitat.

We are planning to establish demonstration areas and offer field days for developers, landowners, and landscapers to ask them to join us in our effort to maintain native passages for wildlife. After the plant inventories are completed, we will design a plan for management to control invasive exotics like tall fescue, reed canary grasses and *Sericea lespedeza*, mainly in the southwest corner of the farm.

If you would like to visit the farm and want to learn more about this project call Nadia at 573-289-2018 or E-mail: <Navarreten@missouri.edu>.



## WEAR THE CONEFLOWERS!

By Judy Turner, Hawthorn Chapter Representative

The Hawthorn Chapter members participated in a trial run of the MONPS badge of achievement program (called *Wear the Coneflowers!*) during the field trip to Laura Ellifirt's on May 29<sup>th</sup>.

We all started the first step by using a spreadsheet I generated to list the 30 plants with their location, habitat, abundance, stage, and date found.

After all the hikes, we discussed the other steps in regards to their initial and potential intent and their educational level. This and additional information will continue to be gathered and solidified for the State Board of Directors at the September meeting.

Please contact Judy at <jtejasrgv@yahoo.com>, if you have any comments you wish to make regarding the Coneflower Patch Program in general or any of the individual steps.

## South Farm Opens Native Cool Season Grass Plots to the Public

By Nadia Navarrete-Tindall

Seedlings of several native cool season grasses were planted in demonstration plots at the Turf Research fields at South Farm of the University of Missouri-Columbia last year, and are now open to everyone interested in landscaping with native grasses.

Plots include *Festuca paradoxa* or Cluster fescue, *F. subverticillata* (Nodding fescue), *Chasmantium latifolium* (River oats), *Glyceria striata* (Manna grass), *Koeleria macrantha* (Prairie June grass), and three *Elymus* spp. (Wild ryes). All the grasses were planted under full sunlight and moderate shade to determine growth, seed production, and natural regeneration. All grasses have immature seed now, except for river oats which bloom later.

*Festuca paradoxa* was also established from seed this year on four aspects of the right-of-ways in the intersection of Hwy 52 West and Hwy 65 South using the same techniques to establish introduced grasses in ROW, and are approximately 2,000 square feet.

The demonstration areas are part of research done in cooperation with the MDNR, MDC, USDA Forest Service, Prairie Fork Trust, the University of Missouri, and other conservation partners. Research plots are established at the Horticulture and Agroforestry Research Center in New Franklin, at the Bradford Research and Extension Center, and by two private cooperators in Missouri. For more information call Nadia at 573-289-2018 or E-mail to <navarreten@missouri.edu>

## Hawthorn Chapter Enjoys Community Projects, Sale, Hikes and Fellowship

By Judy Turner, Chapter Representative

**April**—Spring brought many activities for our Chapter. We had a very successful Bush honeysuckle eradication day at Capen Park in Columbia. MONPS members were joined by folks from WILD ONES and other individuals. Various chapter members brought native plants to sale at the annual Columbia Earth Day festival. Many people came by to buy plants, books, T-shirts, and of course, to visit! We had a few of those visitors attend our May Chapter meeting. The April field trip was to Merv Wallace's Wildflower nursery.

**May**—We had two field trips, as well as another wonderful program at our regular meeting. Robin Kennedy presented Plant Families 101 with slides and an emphasis on the potential renaming of various families. One field trip was to the Paris Fork area of the Mark Twain National Forest. At least 66 plants, shrubs, and trees were identified by the members. The most unique ones were the stand of about 18 Yellow lady's slippers, *Cypripedium calceolus*, and the Black seeded mountain rice, *Oryzopsis racemosa*. Thank you Ann Wakeman for rediscovering this rice and sharing it with us! Our second field trip was an opportunity to explore Laura Ellifrit's woods and wetlands; 75-100 species were seen on three hikes on her property. We ended the day with a potluck and grilled bratwurst and yummy portabella mushrooms. Laura and K. have really done wonders to the former soybean fields!

**June**—One field trip to Ha Ha Tonka was scheduled.

July—August 2004

# BioBlitz

September 10 & 11, 2004

## BioBlitz in Forest Park Seeks Volunteers

Are you interested in sharing your enthusiasm for the outdoors? Would you like to learn more about biodiversity and the species that dwell in Forest Park? The BioBlitz Committee wants you! No scientific background is needed as we will provide you with all the information.

The BioBlitz will be the first-time-ever 24-hour exploration and inventory of all living organisms throughout St. Louis City's newly renovated Forest Park, one of the largest urban parks in the United States—1,371 acres, 500 acres more than New York's Central Park.

Volunteers are needed to assist scientists and naturalists as they find and record the current species of plants and animals represented in Forest Park.

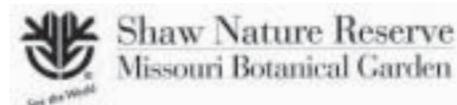
Volunteers will also assist with public activities to further public awareness about biodiversity in an urban environment. Recently restored with an impressive \$100 million investment, Forest Park is a natural oasis for St. Louis with its integrated ecosystem where humans and nature interact.

A brief orientation program will be held on Saturday, September 4<sup>th</sup>. For more information contact Jane Klamer <jane.klamer@.STLBioBlitz.com>

The BioBlitz will take place from 3 PM on September 10<sup>th</sup> until 3 PM September 11<sup>th</sup> in Forest Park. A welcome tent will be set up by the newly renovated Visitor Center, and there is no charge for participation.

Sponsors include: The Explorers Club, Gateway Wildlands, Missouri Botanical Garden, Saint Louis Zoo, Missouri Historical Society and the St. Louis Science Center. Corporate partners include: Kiku Obata & Company.

For more information visit [[www.STLBioBlitz.com](http://www.STLBioBlitz.com)].



## PRAIRIE DAY AT SHAW NATURE RESERVE

will be held 11 September 2004, 10 AM to 4 PM. Activities and demonstrations include portraying prairie heritage, guided hikes, entertainment, buffalo burgers and more.

Activities are included with regular Shaw Nature Reserve admission (\$3 adults, \$2 seniors) and are free for Garden members, Nature Reserve passholders and children age 12 and under.

Shaw Nature Reserve of the Missouri Botanical Garden is located in Gray Summit, MO, 30 miles west of St. Louis on I-44. For more information telephone 636-451-3512.

Prairie Day is sponsored by the Missouri Botanical Garden, Shaw Nature Reserve and the Missouri Department of Conservation.

## Kansas City Chapter Participates in Plant Sale and Learns Restoration Tips

By Daniel Rice, Chapter Representative

Rain seems to have played a major role in events planned by the Kansas City Chapter this Spring. Our first field trip, planned for April 10<sup>th</sup> to the "Valley of the Bluebells," was cancelled due to a cold, driving rain. Sue and I had scouted the site, on the Little Blue River, the previous weekend and decided that we would try again next year. This was the first time I had ever seen acres of Virginia Bluebells!

The Earth Day plant sale took place on 24 April at Lakeside Nature Center, and once again it rained—not as heavily as on April 10<sup>th</sup>, but I think that it did impact sales. We had fun, anyway, and sold several T-shirts, in addition to about 40 pots of plants.

April 30<sup>th</sup> through May 2<sup>nd</sup> were the dates for the annual Springfest at Powell Gardens, east of Kansas City. While rain did not occur during the sale, the main tent had to be put up twice after strong winds, on both Wednesday and Thursday nights, blew it down. The plant sale went well with Sue, Ed and I selling plants from Missouri Wildflower Nursery as a Chapter fundraiser.

Our first field trip in May took place on Saturday the 10<sup>th</sup>. We headed to Southeastern Cass County to visit a private prairie, Camp Branch Prairie, owned by Al and Linda Storms with a good-sized limestone glade on it. We hope to visit here again in the future. And it didn't rain!

The last Chapter meeting of the Spring took place on May 20<sup>th</sup>. Mr. Arthur Benson of the Missouri Prairie Foundation was our guest speaker. He gave us the history and purpose of the Foundation, highlighting major purchases, successes and failures that have occurred over the years. One point of interest is that the Prairie Foundation has basically stopped planting seedlings in restoration work, relying on sowing seed instead. They have apparently have had better luck with restoration using seed as opposed to using plants.

Saturday May 22<sup>nd</sup> was the date for our annual field trip to Slip Bluff Park near Lamoni, IA. It was bright and sunny when we set out, but clouded up the further North we went. It had just stopped raining when we arrived in Lamoni; now I know firsthand why they call it "slip bluff!" We slid down the paths until it was just too much. We headed down off the path—all for naught. We were about a week late, but did see some nice seedpods and many seedlings of the small white Lady's slipper orchid. Later, we met up with the Nulls, Cynthia and George, and explored more of the park with them.

Kansas City Chapter will not meet again until 16 September. I hope that everyone has a safe and enjoyable Summer!



Bluebells, *Mertensia virginica*. Illustration by Paul W. Nelson reprinted with permission from the Missouri Department of Natural Resources and originally published in the book, *Spring Wildflowers of Missouri State Parks* by Bruce Schuette.

## Visit Our Websites

Robin Kennedy, University of Missouri Herbarium, Columbia, is our Society's webmaster and does an excellent job of maintaining our site on the world wide web: [[http://www.missouri.edu/~umo\\_herb/monps](http://www.missouri.edu/~umo_herb/monps)].

### CHAPTERSITES

Kansas City

[www.angelfire.com/mo2/kcmonps/](http://www.angelfire.com/mo2/kcmonps/)

Columbia

[www.digmo.com/npsboco](http://www.digmo.com/npsboco)

### SITES FOR MISSOURI BOTANY

Flora of Missouri Project:

<http://ridgwaydb.mobot.org/mobot/missouri/>

*Atlas of Missouri Vascular Plants:*

<http://biology.smsu.edu/herbarium/atlas/>

[atlas\\_of\\_missouri\\_vascular\\_plant.htm](http://atlas_of_missouri_vascular_plant.htm)

### OUR READERS' SITES OF INTEREST

KCWildlands: [www.kcwildlands.org](http://www.kcwildlands.org)

GrowNative!: [www.grownative.org](http://www.grownative.org)

National Plant Conservation Campaign:

[www.cnps.org/NPCC](http://www.cnps.org/NPCC)

~NEW~ Tom Terrific's Butterfly Gardening Website:

<http://www.tomterrific.com/butterfly/>

## Osage Plains Chapter News

### Lawrence Lewis Presents Insightful Program

By David Lindell, Osage Plains Member

"Defining Our Bioregion" was the title of the program presented by Lawrence Lewis, longtime teacher and minister of the Episcopal Church, for the 17 May 2004 meeting of the Osage Plains Chapter. The program was designed to explain the Chapter name "Osage Plains" and to encourage knowledge of and pride in the places where people live.

Larry began the program by reading part of Psalm 104, an important part of scripture related to how we fit into the environment. Bioregionalism is a connection for us with the earth and with the past, present and hopefully, the future. Bioregionalism sees all things through ecology, the root laws and principles of life itself. It is a unique way of defining and understanding the place where we live, and of living there sustainably and respectfully.

Bioregionalism is the most thoroughly ecological of all twentieth century movements. Its principles apply equally well to urban and rural regions. These principles have the potential of uniting people of diverse cultural and economic backgrounds.

Larry provided printed material, such as *How to Be a Bioregionalist*, *Missouri Ecological Sections and Subsections*, *Mineral Springs Resorts*, and *Twenty Questions* that were answered regarding information about the Osage Plains region; was very informative.

Several activities were mentioned that would assist people relate to their Bioregion. Discover the "real" (ancient) names of the landscape, make a calendar—when do the native plants bloom; take a walk; tell a story; sing a song; learn the natural and human history of your area; plan a party; develop a project or build strong local communities.

## Quarterly Board Meeting Highlights

# 17 April 2004 Caney Mountain Conservation Area

Quorum assessment okay. Approval of minutes: December 6, 2003, Columbia, MO. Pat Harris stated the fiscal year was changed to 1 July-30 June at the 12-5-98 Board Meeting. Bob Siemer (BS) **Moved** that the amended minutes be approved. Dan Rice (DR) **Seconded**. The amended minutes were approved.

**Treasurer's Report—Bob Siemer (BS)**, and a copy of the report is on file with the Secretary. The majority of expenses were related to the *Petal Pusher* (approximately \$500 per issue). A \$250 deposit has been sent to Pere Marquette Lodge for the 2005 joint MO/IL meeting. The Society's Bulk Mail Permit was renewed at \$150. For this most recent reporting period, MONPS had deficit spending of \$639. Operating Accounts total \$8247.49. Four CDs each have balances of approximately \$1300.00. They are earning 1.31%-1.41% interest. Hudson Fund totals \$13,343.06 and is earning 1.10% interest. Total cash assets equal \$26,826.17. The next CD to mature will be the Hudson fund in September 2004.

### PUBLICATIONS AND MEDIA

**Petal Pusher—Betty Walters (BW)**. Ann Earley reported that one reader read about the patch program and is interested. Dan Drees will write a column on landscaping with natives.

**Missouriensis—George Yatskievych**, absent; by E-mail, George reported that production of the 2003 *Missouriensis* is behind schedule.

**MONPS Website—Robin Kennedy**, absent. Bruce Schuette's (BSchuette) two orchid photos are now on the "images" page. Robin is working on posting the "Wear the Coneflower" brochure. Paul McKenzie (PK) asked if Society officers will be posted on the web. President Kathy Thiele (KT) asked Chapter Representatives to go to their chapters and determine Chapter contact information.

### COMMITTEES & TASK FORCES

**Membership stats—Ann Early (AE)**. Fifty new members have joined since December 2003; 407 total members, including 37 exchange; 370 actual members; 29 life members—14-STL, 1-KC, 4-Hawthorne, 10 have no Chapter affiliation. David Read is newest life member; Blooming Paradise Native Plants of Union also joined as a life member. Four Past-Presidents have accepted the offer of life membership—Bill Summers, Jack Harris, David Castaner and Paul Redfean. Assistance has been offered to Springfield in the form of contact names (for creating new chapter). The post office where the Society PO Box is physically relocating and this could affect mail to the PO Box.

**Nominating/Ballot Committee—George Yatskievych**, absent. Both of the outgoing Board members have agreed to run again, and no other nominations have been received.

**Awards Committee—Jack Harris (JH)**. No nominations have been received from the general membership, but there are a few candidates under consideration.

**Hudson Fund Committee Report—George Yatskievych**, absent; by E-mail, George suggested that the first Hudson award be delayed until next year when a review committee will be established. This year the committee needs to finalize a mechanism for receiving and reviewing applications.

### CHAPTER REPORTS & CHAPTER FOLLOW-UP REVIEW

**CHAPTER REPORTS—Hawthorne and St. Louis** reports on file with Secretary. **Kansas City—Dan Rice**. Dan noted that there is a new video out from KC Wildlands on BioBlitz; KC Wildlands is in their 3<sup>rd</sup> year of full funding and has a full-time coordinator.

**Osage Plains—Marlene Miller**. There was no Dec-Jan meeting. In February Pam Haverland gave a talk by speakerphone on Lewis and Clark activities. In March Dr. Wayne Morton (Osceola), president MO Prairie Foundation, spoke about Prairie chickens and the location of booming grounds. The first field trip of the season was to a private woodland area; the second field trip was April 17.

Possible new **Carthage** Chapter—Stanley Walker has inquired. There are many members from **West Plains**, but they are not ready to start a Chapter. Phil Pitts from **Jefferson City** would like to revitalize that Chapter. BSchuette stated that Mike Skinner has expressed interest in the possibility of re-starting a **Springfield** Chapter.

### SOCIETY BUSINESS

**Wild Area Advisory Committee Meeting (Dec. 12 in Jefferson City)—Jack Harris**. Wild Area Ad. Comm. Mtg. (Mudlick Mountain at Sam A. Baker, April 26-27)—Alan Brant, representative. Max Towler attended the final meeting of the Wild Area Comm. where the proposed Wild Area Management Policy was reviewed. The most recent changes were agreed upon. The policy was re-published and signed by Steve Mahfood.

JH suggested that we keep a representative at future meetings. Society representation is important as other opposing interests may be represented. KT has copies of the Roaring River plan; said the DNR would like representatives to be people who live near the respective wild areas.

**Center for Plant Conservation—"Plant Conservation for Gardeners" tip sheet**. It was decided that the best option will be for MONPS to have a link on the website to the CPC tip sheet (on the CPC site). Kim McCue will make the necessary communications.

**Confirm arrangements for Annual Meeting/June meeting—Tim Smith**.

**Operating Manual Status—Pat Harris**. Pat asked that each officer review the descriptions and send comments to her.

**Fundraiser/T-shirts—Sue Hollis**. The cost for 200 T-shirts, without the artwork was \$1,123. Sue requested reimbursement as she wrote a personal check in order to take delivery of the shirts. KT said the rule will be pay up front. Chapter cost is \$11.

**Brochures—SH** stated that a better bulk-printing price could be had if chapter orders for brochures were combined.

**MONPS Wear the Coneflower patches—Judy Turner**. Perhaps six persons total have earned the patch. The program was developed by Larry Morris, Jack Harris, Pat Harris, Linda Ellis, and Jim Bogler. Few native plant societies have a similar program; however, many are working with Scouts to help them earn their plant badges. Judy suggested that, perhaps, we could create a "junior" program, encourage Chapters to complete the program as an activity, give a prize for the Chapter with the most earned patches, have "walks" to work on specific parts of the patch program; perhaps, make it a State level activity. Send other suggestions to Judy.

**Environment and Education Committee—Discussion on file with the Secretary**. DR **Moved** that the Environment and Education Committee be disbanded and that issues be handled on a case-by-case basis. Tim Smith (TS) **Seconded** the motion. The motion carried (with one dissenting vote).

**September meeting—Should we change the weekend of our meeting?**

The St. Louis Explorer's Club and Gateway Wildlands are organizing St. Louis' first BioBlitz. The event is scheduled to take place in Forest Park on September 10-11. Unfortunately, that date conflicts with our fall State Board meeting. The active portion of the local membership may want to be able to help with the BioBlitz, which would come at the expense of the meeting. Also, this is the weekend of Prairie Day at Shaw Nature Reserve. **The new weekend for the Quarterly State Board Meeting will be Sept. 17-19.**

**By-laws change review—KT** provided everyone with a copy of recently approved additions and changes to the Society by-laws. (Hand-out on file with Secretary). Article VI, Sect. 11. SH requested that the words "where possible" be stricken from the sentence, "In that event the president will relay the amendment motion to all recipients and extend the due date accordingly **where possible.**" There was no opposition. Jay Raveill **Moved** to table further discussion until the June Board meeting. Kim McCue **Seconded** the motion. The motion carried.

### MISCELLANEOUS ANNOUNCEMENTS

-A grass ID workshop will be held the 3<sup>rd</sup> week in August in Fayetteville, AR.

-Camellias, identified as carriers of Sudden Oak Death, have been sold to nurseries in Arkansas.

-BSchuette—The DNR is conducting a survey, Missing Masterpieces, as part of a State Park expansion plan to "fill in the gaps." Criteria for a state park include, statewide significance, natural landscape, community, etc. Info is on the web at [mostateparks.com].

-KT—Has copies of the conservation forum report available. Grants of up to \$5K are available from the Ozark Natural Resources Foundation and the L-A-D Foundation. Deadline was May 7.

**Appreciation—Thank you** to everyone for bringing food and other items for the BBQ. Thank you to Tim Smith for arranging field trips and use of the building for meeting; Jay Raveill for hotel arrangements; Betty for her work on the BBQ.

Present at Meeting:

Pat Harris	Sue Hollis
Betty Walters	Ann Earley
Kathy Thiele	Bruce Schuette
Paul McKenzie	Kim McCue
Bob Siemer	Dan Rice
Tim Smith	John Oliver
Judy Turner	Martha Hill
Nels Holmberg	Rex Hill
Lia Bollmann	Jay Raveill
Jack Harris	<b>Respectively Submitted</b>
Marlene Miller	<b>Kimberlie McCue</b>
	<b>MONPS Secretary</b>



## The Missouri Native Plant Society Celebrates 25 Memorable Years

**Editor's Note:** Five years ago, Larry R. Morrison, with forethought and determination, wrote a history of our Society. Now our readers will have the opportunity to witness how an idea becomes reality. It is with great pleasure we pay homage to our past by bringing you **PART (2)** of our story.

### FROM GERMINATION TO FLOWERING:

#### **The First Twenty Years of the Missouri Native Plant Society By Larry R. Morrison**

Our Mission Statement: *The purpose of the Native Plant Society of Missouri is to promote the preservation, conservation and study of the wild plants and vegetation of Missouri, the education of the public to the value of the native flora and its habitat, and the publication of related material.*

The guest speaker at that organizational meeting was Robert H. Mohlenbrock, chairman of the Botany Department at Southern Illinois University - Carbondale, who spoke on "Native Plants and Their Preservation." In his address, Mohlenbrock gave his personal ideas on why someone should be interested in native plants and their preservation, and talked about how individuals could contribute to an organization such as MONPS, emphasizing that one did not have to be a professional to make such a contribution. He then went on to place a challenge before the new organization by, in essence, setting its agenda. Mohlenbrock addressed what he saw as the function of native plant organizations, emphasizing such things as self-education as a group by organizing state-wide field trips; lobbying at the state, or even federal, level for issues directly or indirectly related to conservation; and communications with others, in the state and surrounding areas, about native plants and conservation.

At that June meeting, participants also voted to give a more specific name to what had been called the "Newsletter" in previous mailings about the proposed society. The consensus of those present was to adopt the Latinized version of the state's name as it was found in specific epithets. The most common spelling of that epithet was "Missouriensis," hence the journal *Missouriensis*, the official publication of the Missouri Native Plant Society, was born.

In an "article" in the first issue of that "journal," published in the summer of 1979, newly elected MONPS president Jon L. Hawker presented his views on the society and its future. He claimed that the organization's members "have an opportunity to begin any number of extremely vital and long overdue activities involving the plants of Missouri. The scope of these activities

should necessarily be broad to reflect the broad backgrounds and interests of the many people we hope to see active in the society." He warned, however, against becoming too splintered among smaller, special interest groups, and declared "At this stage in the evolution of the Missouri Native Plant Society . . . I think it imperative to clearly establish a few main goals and to move together to accomplish them. We need to establish a sense of group consciousness and a strong society identity during these formative years." Hawker continued, then, to state what he saw as the most critical initial functions for the society. "At this point, I believe that our two greatest tasks will be the establishment of a system for determining the status of the plants of Missouri and the education of the citizens of Missouri as to the importance of the results of that systematic analysis." After listing several other activities that society members might want to get involved with, Hawker concluded by pledging to help MONPS "grow and become a vital cooperative union of all people interested in Missouri plants from whatever point of view."

Incidentally, it was also Hawker who first referred to the society by its acronym "MONPS" as a shortened, familiar way to refer to the organization. Although several members objected, some even claiming MONPS sounded like a disease, the sobriquet stuck.

That first issue of *Missouriensis* also saw the call, by the society's Vice President, Edgar Denison, for a project that would consume the efforts of many people for several years: An inventory of the plants of Missouri. As Denison said, "An inventory is necessary because we simply do not have the knowledge which is needed to evaluate the status of our flora . . ." He admitted that Steyermark's *Flora of Missouri* included "just about every plant to be found growing in the state," but, Denison pointed out, Steyermark gave "no information about the quantitative presence of the plant. Was there one specimen, or were there hundreds?" Furthermore, Denison continued, "The *Flora of Missouri* took many years to compile, and it is safe to say that the data is at least 30 years old, 30 years during which many changes have occurred in the state, resulting in vast changes in the distribution of its vegetation." Thus, a plea was made for society members, "professional and amateur, to report to the editor of 'Missouriensis' whatever they find and believe to be other than quite common." The intent behind the collection of such data was that eventually there would be "a plant inventory for the state, updating Steyermark's work, and immeasurably helping the people who are interested in perfecting their lists of rare and/or endangered species, so that such plants can be given adequate protection."

### INFORMATION ON JOINING MISSOURI NATIVE PLANT SOCIETY

#### SOCIETY DUES

(Chapter dues additional)  
Student ..... \$5.00  
Regular ..... \$10.00  
Contributing ..... \$20.00  
Life ..... \$200.00

#### CHAPTER DUES

Columbia ..... \$6.00  
Kansas City ..... \$5.00  
Osage Plains ..... \$5.00  
St. Louis ..... \$5.00

(Circle all that apply)

Do not publish my name and address in the membership list.

Make check payable to: Missouri Native Plant Society

Mail to: Missouri Native Plant Society  
PO Box 20073, St. Louis, MO 63144-0073

Name \_\_\_\_\_  
Street \_\_\_\_\_  
City, State \_\_\_\_\_  
9 digit Zip \_\_\_\_\_ Phone \_\_\_\_\_  
E-mail \_\_\_\_\_

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Inside This Issue

- Members' September Field Trip Schedule
  - Caney Mountain CA Plant List & Photos
  - Two Board Members Elected By Acclamation
  - St. Louis Schedules First BioBlitz
- 

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