

Missouri Native Plant Society

September

- 7** Tue., 7:00 PM
Jefferson City
Flora of Missouri Project presented by George Yatskievych. An update on Steyermark's reference book. Chapter meeting held at Runge Nature Center. Before the meeting, supper will be at Ryan's at 5:30 PM.
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- 10-11** Fri.,-Sat.
Ironton
Fall Meeting & Field Trip. See page 3 for details.
-
- 11** Sat., 9:00 AM
Clinton
Field Trip. Meet at the Library parking lot. Destination to be determined.
-
- 14** Tue., 4:30 PM
Clinton
Field Trip. Meet at the Library parking lot. Destination to be determined.
-
- 15** Wed., 7:00 PM
Kansas City
Annual Seed and Plant Exchange. Bring your extras. Chapter meeting at the Loose Park Garden center, 52nd & Wornall. Program to be announced.
-
- 18** Sat., 9:00 AM
Kansas City
Field Trip to Blue River Glade and Sager Woods. A fall visit to last summer's sites to see some different species and changes at the sites. Meet in the SW corner of the Hypermart parking lot, east from 87th St. off I-435, then south on Hillcrest Rd. Bring water and sack lunch.
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- 22** Wed., 7:30 PM
St. Louis
Missouri's Endangered Plants: Some good news from the field presented by Kim McCue of the Center for Plant Conservation. Chapter Meeting at the Missouri Botanical Garden, Ridgway Center.
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- 25** Sat., 9:00 AM
Clinton
Field Trip. Meet at the Library parking lot. Destination to be determined.

October

- 1** **Due date for material for November-December *Petal Pusher.*** Please send meeting and field trip information and articles (typed double-spaced) to the editor by this date. If article has been word processed on a Macintosh, please send copy on disk to Pat Harris. Disk will be returned. Or send e-mail to: pharris@stlnet.com
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- 5** Tue., 7:00 PM
Jefferson City
Natural Areas Update presented by Karen Kramer, Missouri Department of Conservation, Natural Areas Coordinator. Chapter meeting at Runge Nature Center.
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- 8-9** Fri.,-Sat.
St. Louis
46th Annual Systematics Symposium. Theme: Coevolution. Missouri Botanical Garden. See article on page 9.
-
- 9** Sat., 9:00 AM
Clinton
Field Trip. Meet at the Library parking lot. Destination to be determined.
-
- 12** Tue., 4:30 PM
Clinton
Field Trip. Meet at the Library parking lot. Destination to be determined.
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- 23** Sat., 9:00 AM
Clinton **Field Trip.** Meet at the Library parking lot. Destination to be determined.
- 27** Wed., 7:30 PM
St. Louis **Annual Show & Tell.** Bring 10 of your favorite slides of interesting places & plants you have seen this year. Chapter meeting at the Missouri Botanical Garden, Ridgway Center.
- November**
- 2** Tue., 7:00 PM
Jefferson City **Baseball and Wildflowers** presented by Bill Clark, formerly an international scouting supervisor for the Atlanta Braves for thirty-three years. During his travels he photographed plants and birds. Chapter meeting held at Runge Nature Center.

1999 Annual Meeting & Awards

by Sue Hollis

The Annual Meeting was held on 12 June 1999 at Hamilton Nursery, south of Houston, MO prior to the quarterly board meeting. Dr. Larry Morrison presiding.

Four of the five MONPS awards were presented by the Awards Committee this year.

Mervin Wallace – Jefferson City Chapter, received the Erna A. Eisendrath Memorial Education Award, for teaching Missouri people, businesses and agencies about the beauty, utility and cost effectiveness of using native plants.

Bob and Ann Merrill – Cassville, MO, received the Plant Stewardship Award for their steadfast protection of *Trillium pusillum* var. *ozarkanum* on their property.

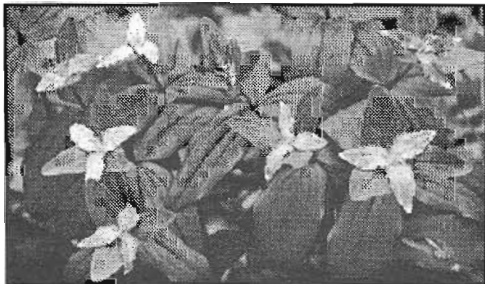


photo: jahar

Trillium pusillum v. *ozarkanum*

Jim Bogler – St. Louis Chapter, received the Service Award for tireless efforts in environmental activities, including protecting the Creve Couer Park from highway construction.

George Yatskievych – St. Louis Chapter, received the Julian A. Steyermark Award for his continuing research in rewriting the classic Flora of Missouri.

ELECTION RESULTS

President Morrison thanked the Nomination and Ballot committees and then announced the results of the election:

- President: Jack H. Harris, St. Louis
- Vice President: Sue Hollis, Kansas City
- Secretary: Lynda Richards, Rolla
- Treasurer: Donna Kennedy, St. Louis
- Board Member: Pam Haverland, Columbia
- Board Member: Robin Kennedy, Columbia

Welcome to New Members

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

- John Besser, Columbia
- Joseph L. Caldwell, Springfield
- Amy G. Haake, Pacific
- Kathy Magruder, Defiance
- Janet E. Mckean, Rolla
- Dick Nugent, Eunice
- Betty Tanner, St. Charles

Letters

To my friends in MONPS:

I was surprised and overwhelmed to receive the Steyermark Award from the Society. Working on the Flora of Missouri Project has given me a deep appreciation of Julian Steyermark and his amazingly productive research on plants of both Missouri and the tropics, which made receiving "his" award all the more special. But, it is also a very good feeling to know that people approve of the work by myself and others on the Project to revise Steyermark's Flora. We'll continue working hard and promise to get the other volume done much faster than the first one. Many, many, many thanks!

George Yatskievych



1999 Fall Meeting & Field Trips

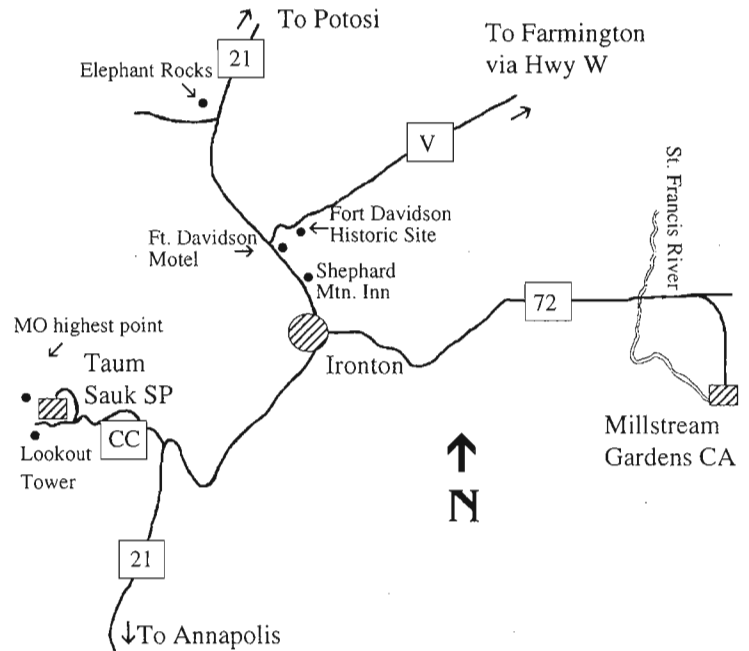
SEPTEMBER 10-12

IRONTON, MO

Go back in time with us to the St. Francis Mountain section in the Ozark Highlands. Our field trips this fall will be to the oldest geological region of Missouri. The St. Francis Mountains consist of granite and rhyolitic rock formed by volcanic activity about 1.5 billion years ago. Since this area has been above sea level and unglaciated for more than 200 million years, it has the greatest diversity of flora of any in the state.

As we visit Taum Sauk State Park we'll look for plant species associated with igneous glades, savannas, and dry-mesic igneous forests. *Asclepias meadii*, *Osmunda regalis*, *Luzula campestris v. bulbosa*, *Cacalia plantaginea*, and *Croton willdenowii* are some to watch for! The loop trail to Mina Sauk Falls and back is a 2.5 mile round trip. This is Missouri's highest wet-weather waterfall at 132 feet.

In the afternoon at Millstream Gardens Conservation Area, we'll walk along the north side of the St. Francis River on a trail that includes views of the Tiemann Shut-Ins.



LODGING:

• Fort Davidson Motel	573-546-7427
Pilot Knob, Hwy 21 & Hwy V	
1 person, queen size bed	\$32.95
2 persons, queen size bed	\$37.50
2 persons, two full beds	\$43.40
3 persons, two full beds	\$44.60
4 persons, two full beds	\$46.45

All prices are plus tax. There will be a block of rooms held for us. Be sure to ask for the Missouri Native Plant Society discount when making reservations. If people cannot be accommodated there, they will be referred to the Shepherd Mountain Inn (573-546-7418) at the same discounted price. This is a short distance away on Hwy 21 S of Pilot Knob.

ITINERARY

- 10 Sept. Fri., 7:00 PM **Friday Evening Slide Program** on Taum Sauk State Park and other interests in the area presented by Janet Price, naturalist for Johnson's Shut-Ins and Taum Sauk State Parks. Held at the Ozark Regional Library, 402 N Main St., Ironton. About four or five blocks north of the county courthouse.
- 11 Sept. Sat., 8:00 AM **Field Trip to Taum Sauk State Park.** Meet at the Fort Davidson Motel parking lot, Ironton, MO. Travel on Hwy 21 about 5 miles south of intersection of Hwy 72 & 21. Turn right (NW) on Hwy CC. Travel about 2.5 miles on Hwy CC to turn off to the right (watch for sign) - to the State Park parking area NW of lookout tower.
- Sat., 12:00 PM **Lunch** at picnic area near lookout tower or in Ironton for those not bringing lunches.
- Sat., 2:00 PM **Field Trip to Millstream Gardens Conservation Area.** Starting from Intersection of Hwy 72 & Hwy 21, travel 9 miles E on Hwy 72. Approximately 2.5 miles E of Hwy MM on Hwy 72, turn S on access road (watch for sign). Meet at the CA parking lot (the one by the St. Francis River near the pavilion).
- Sat., 6:00 PM **Dinner** at Fort Davidson Restaurant. We will have a private room, and order off the menu.
- Sat., 7-9:00 PM **MONPS Fall Board Meeting.** Immediately following dinner in the same room. All MONPS members are invited to attend.
- 12 Sept. Sun., AM **Optional Field Trips** on your own. Some possibilities: **Johnson Shut-Ins State Park, Elephant Rocks State Park, Fort Davidson State Historic Site.** The visitors center is open from 12:00 to 6:00 PM on Sunday and 10:30 to 4:30 PM on Saturday. **Hughes Mountain Natural Area.** An igneous knob ca. 11 mi south of Potosi via Hwy 21, then E on Hwy M for 4 mi to County Rd. 541. The area features igneous glades, dry igneous forests, unusual geology and excellent views from the top. **U.S. Forest Service Silver Mines Recreation Area** is just SE of Millstream Gardens and is accessible from Hwy D, ca 2.0 mi SW of intersection with Hwy 72.

Quarterly Field Trip Activity

by Jack H. Harris

On Friday evening, 11 June 1999, a group of approximately 40 friends of our native flora gathered at the farm of Sybill and Joe Amelon. We were treated to a guided tour around the property to view native plants and the results of a project to convert pasture to native warm season grasses. Larry Morrison presented a MONPS 20th year anniversary color slide and narrative program (the slides had been previously solicited from MONPS members). The dialog provided by Larry, with color commentary added by those present, made for a very entertaining and congenial evening. Some of the "ancient" photos challenged the recall of even our more senior members when the question "Who is that?" arose. Speculation was rampant in some cases - especially when the prime suspect was not there to defend themselves. It was abundantly clear that some of our more active and long time members have traveled many happy and species rich field trips in the last 20 years or so. Fortified with snacks, deserts and beverages provided by the hosts, all survived the session in good spirits. Many even appeared in time the next day to embark on the 'trip du jour.'

Early in the morning on Saturday, 12 June 1999, trip leaders Karen Kramer, Sybill Amelon, Tim Nigh and Blane Hueman loaded a caravan of 4 wheel drive vehicles with 30 botanizers and deposited them at the Sunklads Natural Area (now the largest MDC managed state designated natural area). One remark overheard was that the site was about as far as one can get from a paved road in Missouri. Stopping along the edge of Big Yuccapin Basin it was a deceptively easy stroll from the ridge top down to the bottom of Missouri's longest collapse structure. Tim Nigh and Blane Hueman demonstrated that people could walk on the floating mats of sedges, rushes, and grasses - which nearly covered the sinkhole pond from shore to shore. This emboldened a few members to follow their lead for a short distance. Sue Hollis then demonstrated, inadvertently, that a person could also break through the mat and sink in up to their waist. After a brief struggle to keep her shoe from being lost in the muck, she managed to clamber back out of the tangled mass. Then most, except Tim and Blane, decided they had better return to terra firma. Tim and Blane were swamped (no pun intended) with questions about plant species identification. After spending over two hours at two of the sinks (Big Yuccapin Basin and Devil's Den Sink) and examining various mat forming sedges, e.g., *Carex lupulina* (hop sedge), *Carex decomposita* (epiphytic sedge), *Dulichium arundinaceum* (three-way sedge), a few ferns e.g., *Adiantum pedatum* (northern maidenhair fern), *Botrychium virginianum v. virginianum* (rattlesnake fern), and flowering plants, e.g., *Salvia lyrata* (lyre-leaved sage), *Cimifuga racemosa* (black cohosh), *Cephalanthus occidentalis* (button-bush), the party headed back to the vehicles. The heat and humidity made the steep climb back up to the ridge top a memorable one at best. By then everyone was ready for lunch

- so after a very short drive back to a wide spot along the narrow ridgetop - lo and behold!

There was lunch! Still as far as one can get from a paved road. Even after the Friday evening bash, the Feed Company (Joe Amelon & Co.) had done it again. They delivered bison burgers/ sausage, home-made buns, barbecue sauce, mayonnaise, beans, salad, lemonade, cookies, utensils, etc. All of which was gratefully indulged in by the eager eaters. Jim Bogler demonstrated his clairvoyance by somehow arriving just in time for lunch.



photo: jahar

Dining out at the Sunklads

After eating lunch (correction - after dining out) on the ridge, Tim, Blane and Karen led the group over the edge again and into the Bog Basin. Here was a somewhat different array of sedges and rushes. Also a *Platanthera lacera* (ragged orchid) was found in bloom. In this basin the dense mats of plant life seemed to be resting on the bottom but were still saturated with water - making for a high stepping, deep, soggy walk if one wanted to see the unique plant variety the area had to offer. After a couple hours the botanizers curiosity and interest waned and all drifted back in the direction of the barn.

The Hamilton's barn that is. Rex and Amy Hamilton (proprietors of Hamilton Seeds & Wildflowers, Inc.) were our most gracious hosts for the evening. Walking tours around the property were rewarded with sweeping spectacles of *Callirhoe involucrata* (purple poppy mallow), and *C. digitata* (fringed poppy mallow) which were at peak flowering. All mixed in with an eye popping variety of many, many other blooming wild flowers including the Echinaceas. Both *E. purpurea* and *E. paradoxa* were vying for attention. After being there long enough to let the eye become adjusted and conditioned to the rainbow of colors - the excellent evening meal was served by none other than Joe Amelon & Co. (The Feed Company). After the meal, the finishing touch was samples of various grape beverages distributed by Monsieur John Grinstead of Rolla, President Larry Morrison terminated the wholesale indulgence by calling the Annual Meeting of the Board of Directors to order and proceeding with Society business.

Up and going again on Sunday morning, 13 June 1999, a smaller corps of 13 persistent field trippers were led by Bill

Continued on page 5

Summers to an area of the Mark Twain National Forest adjacent to the east side of the Paddy Creek Wilderness. Bill led the group to two separate areas. An eclectic listing of species noted were: *Eleocharis quadrangulata* (spike rush) in anthesis, a robust *Panax quinquefolius* (ginseng) in fruit, *Sullivantia sullivantii* (*Sullivantia*) in bloom high on the bluff, *Asclepias variegata* (variegated milkweed), *Juglans cinerea* (butternut), and last - but not least - we were briefly serenaded by a pack of yapping coyotes who were just over the ridge and out of sight.



Many moons ago Lynda Richards conceived a weekend trip such as the one which is barely sketched out above. Over many months all of the coordination and arrangement of the parts were gradually assembled by Lynda. On behalf of the Society, and particularly those who were fortunate enough to actually participate, we all owe a big **Thank You!** to Lynda Richards, Sybill and Joe Amelon, Blane Hueman, Tim Nigh, Karen Kramer, Rex and Amy Hamilton, Sue Hollis (Society meeting coordinator) and Tim Smith (field trip coordinator). It took many hours of personal attention by each individual to make the weekend such a memorable success.

Quarterly Board Meeting Highlights

JUNE 12, 1999

President Larry Morrison, 13 Board Members and 10 guests met at Hamilton Nursery south of Houston, Missouri.

Treasurer's Report: Treasurer Jack Harris distributed a report showing a balance of \$11,044.21 as of 11 June 1999. Current membership is 353, including affiliate and exchange memberships.

Committee Reports

Publicity: Lynda Richards sent a news release to the Rolla Daily News announcing our meeting.

Old Business

Book Sales: Pam Haverland had a supply of books for sale from the Columbia Chapter.

MONPS Web Site: Robin Kennedy requested slides be sent to her for inclusion on the web site. You may send slides or digital photos. If sending them electronically, please send in JPEG or GIF format.

Support for IBC in August: Jack Harris asked for volunteers to help staff the booth. It needs to be staffed Monday-Thursday from 9:00 AM - 5:00 PM and Friday from 9:00 - 11:00 AM.

T-shirt sales: Sue Hollis reported that 2 "Natives are Restless" shirts had been sold that evening.

Second Thoughts

President Larry Morrison thanked the Officers and Board members for their support during his term of office.

Publications of Interest

The following publications may be obtained by writing to the Missouri Department of Conservation, P.O. Box 180, Jefferson City, MO, 65102-0180, or calling 573-751-4115, or perhaps by inquiring at an MDC Conservation Nature Center.

NEW

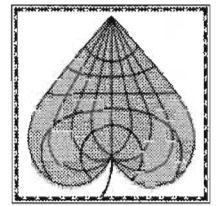
Public Prairies of Missouri. Published by the Missouri Department of Conservation; Carol Davit: Editor; Prairie maps: Michael Klein; Designer: Tracy Ritter. 1999. 48 pages; size 8.5 x 11 inches; paper. This is a completely renovated and upgraded edition of the previous issue of this very useful pamphlet. 4000 acres of prairie have been added since the last edition in 1994. The maps and illustrations are visually appealing and informative. In addition to a new individual locator map and descriptive narrative for each prairie, a brief prairie primer has been added. This will help the public to understand and appreciate the value of one of our most severely threatened natural resources.

Missouri Species of Conservation Concern Checklist – June 1999. Published by the Missouri Department of Conservation, Natural History Section. 30 pages; size 8.5 x 11 inches; paper. This is the annual edition of the current status on the global and state condition of our flora and fauna. Species that are federally listed are so indicated. The recently adopted system of State listings (S1 - S5) and Global ranks (G1 - G5) is used in these listings. The pamphlet Introduction advises that "... 18 percent of the native vascular plants, 14 percent of the nonvascular plants, and 28 percent of the vertebrate animals in Missouri." qualify for listing. For nature study enthusiasts who wish to learn more about the life forms that are, or may be, living on the edge, a two page list of references is included.

Conservation Trails: A Guide to Missouri Department of Conservation Hiking Trails. Published by the Missouri Department of Conservation; 97 pages. Compiled by Teresa Knight; Bernadette Dryden: Editor; Russ Miller & Debbie Briedwell: Maps; Tracy Ritter: designer. 1999. Size 6.5 x 9.75 inches; spiral binding/paper. A new document that hikers, birders, botanizers, and nature study enthusiasts will want add to their map/reference stash for outdoor foray planning when visiting MDC lands. Describes 86 trails on 40 Conservation Areas. Lays flat (hooray!) and each map has its associated narrative on the facing page (hooray again!). Maps are neat, two colored, uncluttered, and planimetric (What? - no contours??). Each map has its own scale. Thus it's easy to read and use. The Key to Trails is nicely laid out (for a statewide trail location snapshot) but there is no organized link to the detailed map pages in the book. One has to use the old hunt and search by name method. Still - this guide is a practical companion/supplement to the MDC *Missouri's Conservation Atlas*.



XVI INTERNATIONAL BOTANICAL CONGRESS



by Jack H. Harris

The Congress is held every six years and last met in the U.S. in Seattle in 1969. This Congress attracted 4,900 professional scientists from 80 nations to attend the recent gathering at the America's Center and the Missouri Botanical Garden in St. Louis, 1 - 7 August 1999. A Nomenclature Section met during 26 - 30 July 1999. Nearly every discipline related to the broad field of plant science was represented. In addition to the scientific programs several continental and local field trips were also scheduled. A commercial exposition was concurrently held 2 - 6 August that comprised 75 exhibit booths which were operated by commercial, government, and non-government organizations. The last Congress was held in Tokyo in 1993 and the next Congress will be in Vienna, Austria in 2005.

IBC EXHIBIT

Society members operated an exhibit booth at the Congress 2 - 6 August 1999. The objective of the display was to attract attention to the attributes of native plants that sustain our environment and to convey an appealing, educational experience. The display consisted of a table top board with color prints of flowering plants arrayed around a map of the natural divisions of Missouri. Leader lines pointed to the general location/natural division where each plant may be found. The selected plant photos were representative of the variety and range dispersal of plants native to the state.

The volunteers sold Society momentos and distributed literature (*Petal Pusher*, flyers, etc.) and membership information. They sold 42 (*The Natives Are Restless*), and 16 (*Celebrate Biodiversity/20th Anniversary Missouri Natural Areas*) T-shirts, 24 bandannas, and 7 MONPS lapel pins. We have a standing order from a person in London and one from a person in Mexico City to be sure and let them know if we produce any more of the *Celebrate Biodiversity* T-shirts. The volunteers answered a plethora of questions about Missouri flora – not withstanding the occasional language difficulty.

The MONPS logo has now migrated to Japan, Australia, China, Mexico, Canada and the United Kingdom that we know of (are we an exotic species?), and of course to many states around the nation. We had visitors who stopped in to chat from other native plant Societies in the States of: Alaska, Arkansas, California, Florida, Georgia, Illinois, Iowa, Ohio, New England, Texas, West Virginia, and Wisconsin.

We all owe a great big **Thanks!!** to Carl Darigo, Pat Grace, Sue Hollis, Donna Kennedy, Bruce Schuette, Ann Schuette, and Bill Summers for volunteering their time and effort to act as ambassadors for MONPS and for our native flora.

It was a busy week - and a very interesting one.

IBC FIELD TRIPS

MONPS co-sponsored and volunteers assisted in leading three SCIENTIFIC FIELD TRIPS to visit local high quality habitats. Project planning and operations coordinator for MONPS was Dr. George Yatskievych.

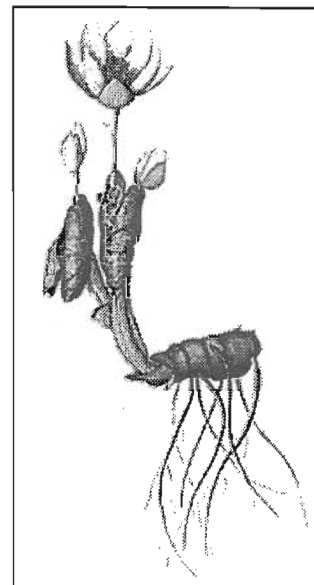
(1) Sandstone Ravines and Pine/Oak (i.e., Pickle Springs Natural Area). Trip was led by Dr. Stephen Timme (a MONPS past president). He was assisted by Heidi Schmidt, and John Stone. Thirty-seven IBC participants attended this trip.

(2) Prairies and Glades of Missouri (i.e., Graham Cave State Park & Tucker Prairie). Trip led by Nels Holmberg (a MONPS board member). He was assisted by Bruce Schuette (a MONPS board member), John Stone, John Faborg, and Ken McCarty. Thirty-five attended.

(3) Big Rivers, Floodplains of the Missouri & Mississippi Rivers. Trip leader was Mike Arduser. He was assisted by Dr. George Yatskievych (a MONPS board member and *Missouriensis* co-editor), and Kendra Sikes. Thirty attended this trip to visit flood plain plant communities.

An additional local trip sponsored by MBG in which Society members played a role was:

(4) Shaw Arboretum (two separate trips to this location). Trips were led by Dr. James Trager. He was assisted by Bill Davit, Mary Morello and Scott Woodbury. Twenty-five participated.



Sanguinaria canadensis
Mary C. Baushelt, Cambria, Wisconsin
Honorable Mention

IBC ART AWARD

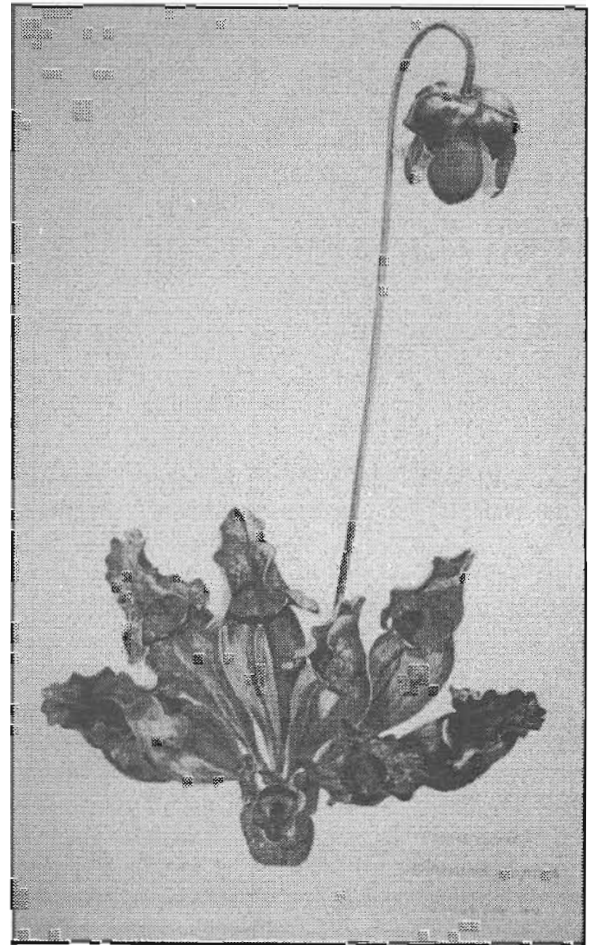
A resolution was adopted at the spring 1999 (Roaring River State Park) meeting of the MONPS Board of Directors (BoD) to sponsor a prize in the Art In Science joint exhibition that was to be conducted at the Missouri Botanical Garden July 15 - August 16, 1999. For eligibility the subject of the work of art was specified to be a plant native to the U.S. mid-west. The prize value was set at \$250.00. President Larry Morrison appointed George Yatskievych to be MONPS executive officer for this project.

Seventy-two works of art were selected to be hung in Monsanto Hall (from a total of 240 entries) for public viewing as the Art in Science exhibition. As for the MONPS competition, forty-five of the original 240 qualified and fifteen of the selected seventy-two pieces qualified for the final judgement. Because of the high degree of difficulty of making a choice from nearly equally outstanding works, a category of "Honorable Mention" was added.

The winner of the contest was Robin A. Jess for her watercolor of *Sarracenia purpurea*. This is the plant that is commonly referred to as the "pitcher plant." It ranges across the eastern upper mid-west north of the glacial boundary - excepting Missouri - thence across and down the eastern seaboard.

The winner of the Honorable Mention category was Mary C. Bauschelt for her watercolor of *Sanguinaria canadensis*, familiar to many of our readers as "bloodroot."

The MONPS letter conveying the award to Ms. Jess appears below. An appropriately modified letter was sent to Ms. Bauschelt.



Sarracenia purpurea
Robin A. Jess, Edison, New Jersey
Best Representation of a Native Midwestern Plant

Dear Ms. Jess,

On behalf of the Missouri Native Plant Society it is my distinct honor to present to you the award for "Best Representation of a Native Midwestern Plant" for your watercolor entitled *Sarracenia purpurea*.

This highest award was conferred from among the eligible entries at the **Art in Science** joint exhibition presented by The Missouri Botanical Garden and The XVI International Botanical Congress in conjunction with the American Society of Botanical Artists and the Guild of Natural Science Illustrators. The assemblage of 72 botanical illustrations from around the world in the Ridgway Center of the Missouri Botanical Garden, St. Louis, Missouri is a special event of this Congress which is convened every six years.

We are all indebted to the jurors. George Yatskievych, Yevonn Wilson-Ramsey, and John Myers completed what was surely an extremely difficult task of selecting the best from among such an aggregation of excellence.

The members of the Missouri Native Plant Society are keenly aware of the enormous contribution to the enjoyment,

education, and enhancement of public awareness of our natural heritage that excellent works of art such as yours play in shaping our views of life on our planet. On this occasion of international significance we observe that such art transcends the boundaries of cultures, language, and human idiosyncracies in many ways.

We wish you every continued success.

Sincerely,
Jack H. Harris, President,
1 encl: Check @ \$250.00

For Daily Bulletin of the XVI International Botanical Congress; news coverage, et al, we suggest:

<http://www.ibc99.org/>

<http://www.postnet.com/botanical>

<http://www.naturalstep.org/>

Meet the MONPS Board

Pat Grace – Membership Chair

Born 1931 in Chicago, IL. First awareness of outdoors was family vacation to Lake Geneva, Wisconsin; Paw Paw Lake, Michigan, and Palos Park Forest Preserve in Chicago. Moved to St. Louis in 1944. Finished Webster Groves High School. Attended Drury College, Washington, University, Forest Park Community College, and finally graduated (30 years later) with a BA in Journalism from Lindenwood College in 1979. Joined Webster Groves Nature Study Society in 1958, and MONPS in 1979 or 1980. Currently Membership Chair for MONPS.

I'm crazy about Asters.

Marlene Miller – Osage Plains Chapter Representative

I was born in Ohio in the Cincinnati/Dayton area and lived there for nearly 21 years. I lived in the country on farms most of that time and both my brothers are still farmers. The neighbor kids and I all loved the woods and spent a lot of time there. I tended to be the leader (was also the oldest) and therefore was the one expected to know what everything was and a little about it. That's when I first started to try to identify plants. We had a whole hillside of beautiful white trillium in the spring. I also worked on any badges that had to do with flowers and/or the out-of-doors when I was in Girl Scouts. I moved to the St. Louis side of Missouri when I married and started learning about Missouri. In establishing our own home, we were lucky enough to be near wooded areas and could hike in them even though they weren't ours. I began to introduce our children to the same things I loved. It was in those woods that I saw my first bird's foot violets. When we moved to the Kansas City side of Missouri, the plant community changed again and there was more to learn. We have about 45 acres of our own here. We grow nearly all our own food. My husband is a school teacher and I am an RN and Director of a hospital based Home Health Agency. There is never nearly enough time to spend out doors now, but we'll do more when we retire. I love herbs and flowers of all kinds and really enjoy the time I am able to spend with the Osage Plains Chapter and the MONPS Board. Thank you for the opportunity to serve.



Chapter News

Jefferson City — Memorable summer field trips took us in early June to Silver Acres, Janet Racen's home in Sunrise Beach. In July we went to Rock Post Nursery in Fulton, home of Ann and Mike Wakeman. On both occasions the weather was perfect, flowers cooperative, food delicious and companions 'par excellence.'

Osage Plains Chapter — New Officers for 1999:

President: David Lindell

Vice President /Board Representative: Marlene Miller

Secretary/Treasurer: Ruth Maynhart

In May, Jerry Payne was our speaker. He explained the training, cost and how to become a Master Gardener. He would like to start a Master Gardener Program her starting in February 2000. The June meeting was a study of the family Scrophulariaceae (figwort family). C.F. Eaglesfield had slides and pressed specimens. There are no meetings in July or August.

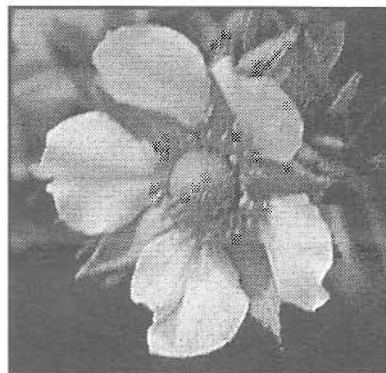


photo: jahar

Potentilla agruta

Woods Prairie Update

by Andrew L. Thomas

The Ozark Regional Land Trust is pleased to announce that it purchased the 40-acre Woods Prairie, near Mt. Vernon, MO, on May 27, 1999. We have only begun to explore the native flora on this scenic, isolated prairie far removed from the "Big Prairie" region to the northwest. A couple of interesting species of note, however, are Tall Cinquefoil (*Potentilla arguta*) and Tharp's Spiderwort (*Tradescantia tharpii*). We invite MONPS members to visit the prairie anytime, and ask you to let us know what species you find as we develop a complete flora list.

Even though the prairie has been acquired by ORLT, its future is not yet totally secure. An extremely complicated and creative transaction made it possible for ORLT to proceed with the purchase, but the organization now holds a substantial long-term financial obligation to the previous owner. Significant funds are still needed and ORLT continues to ask for your help. Please feel free to call me at 417-236-0223 for more information.

SAVING OUR NATIVE FLORA from the INVASIVES

by Jack H. Harris

The Missouri Native Plant Society is affiliated with the national Plant Conservation Alliance (PCA)* as a Cooperator. The obligation of our organization with respect to this relationship is to support the overall strategy of the PCA to the degree that our resources may permit. That strategy is as follows:

"For the enduring benefit of the Nation, its ecosystems, and its people, to conserve and protect our native plant heritage by ensuring that to the greatest extent feasible, native plant species and communities are maintained, enhanced, restored, or established on public lands, and that such activities are promoted on private lands."

-Federal Native Plant Conservation Memorandum of Understanding, May 25, 1994

STRATEGY A

Bring people and organizations together to share resources and talents to effectively conserve the Nation's native plants.

STRATEGY B

Provide opportunities for people to enjoy, understand, and value native plants and plant communities.

Many of the objectives outlined in the strategy are manifested in each cooperator's own strategic plan or organizational philosophy. Providing a national framework serves to align these individual entities into a more powerful coalition with similar goals and focuses. For additional details please visit: <http://www.nps.gov/plants/coop.htm>

President Clinton signed an Executive Order on 3 February 1999 entitled *Invasive Species*. The order directs certain federal agencies to take actions to prevent the introduction of invasive species, to not engage in any activities that may promote the introduction of invasive species, and to develop a comprehensive plan to carry out the mandates of the order. The full text of this order is available at: <http://www.nps.gov/plants/alien/press/eo.htm>

PCA has defined various terms such as Native Range, native, non-native, exotic, weed, Biodiversity, Noxious weeds, etc. for purposes of this initiative. The text of these definitions, and other terms may be found at: <http://www.nps.gov/plants/alien/bkgd.htm>

The PCA organization has various working groups to focus attention to particular areas of need. One of the original groups is the Alien Plant Working Group (APWG). Its web site title is "Weeds Gone Wild" and may be viewed at: <http://www.nps.gov/plants/alien/>

The above policies are consonant with the mission of the Missouri Native Plant Society and officers and members are urged to render support as they may deem appropriate.

*Plant Conservation Alliance (PCA) was previously

referred to as NPCI or the National Plant Conservation Initiative. Having "initiated" our work for five years now, we are going to move to the next level for native plant conservation. As part of this transition to the next step, we will be undergoing a name change along with other structural changes. We will also be getting a logo to go with the name change. Please bear with us as we incorporate this change into our mailings, publications, website, etc.

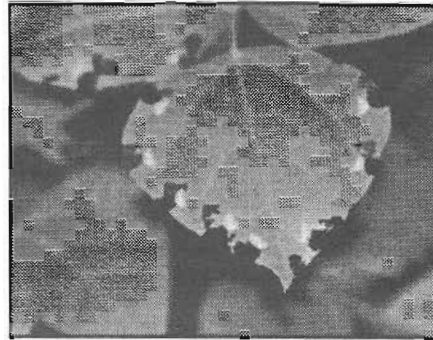


photo: jahar

Leafhoppers eating *Amphicarpaea bracteata*

COEVOLUTION

The 46th Annual Systematics Symposium is scheduled to be held on 8 -9 October 1999 at the Missouri Botanical Garden, St. Louis, MO. The symposium theme is **Coevolution**. About 500 participants are expected to participate this year.

The slated technical presentations are as follows: Beetles and Plants, by Brian D. Farrell, Harvard University; The Evolution of Parasites, by Lynda J. Goff, New York Botanical Garden; Ectomycorrhizae: Coevolution, significance and biogeography, by Roy E. Hailing, New York Botanical Garden; The Role of Bacterial Symbionts in the Nutrition and Evolution of Phloem-feeding Insects, by Nancy A. Moran, University of Arizona; Coevolution and Yucca, by Olie Pellmyr, Vanderbilt University; Coevolution of Fungal Symbionts and Grass Hosts, by Christopher L. Schardl, University of Kentucky; and Chemical Mediation of Natural Systems, by May Berenbaum, University of Illinois.

The registration fee is \$60.00. This fee includes (1) refreshments at Friday evening informal mixer at the Garden, and (2) All technical presentations, lunch and dinner/cocktails on Saturday 9 October.

Concurrent with the Saturday technical program, a commercial exhibition will be open in an adjacent hall for Symposium participants to visit. The Missouri Native Plant Society, St. Louis Chapter will be operating an exhibit booth at this activity.

For registration/info: Systematics Symposium, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO, 63166-0299. 314-577-5176 FAX 314-577-0620 e-mail: richards@mobot.org

You may also download the Registration Form at : <http://www.mobot.org/mobot/symposium>

TIDBITS

PLANTS SCORE AGAIN

Plants continue their entry into the human health field, according to the latest information obtained from the "Health Watch" column in June 1999 issue of "Senior Circuit," a monthly St. Louis newspaper directed to senior citizens. While oats (*Avena fatua* var. *sativa*) cereal has been recommended for some time as a cholesterol reducer, the article recommends an extract of the flowering green plant to boost sex drive. Sold as green oats extract or under such names as Exsativa, clinical studies have shown that subjects taking the supplement for six weeks had significant higher testosterone levels, a key indicator of sexual desire. Furthermore, the article claims that these effects can be enhanced with other natural supplements, such as *Urtica*, an extract of stinging nettles. The latter plant, at least in Missouri, would probably be *Urtica dioica* ssp. *gracilis*, commonly known as tall nettle. Readers are advised that *Petal Pusher* has not tested any of the above claims.

GOLD DIGGERS

An October 26, 1998 Kansas City Star item, reports that New Zealand scientists have persuaded plants to take up gold from soil. This work could be one of the first examples of "biological mining". The best plant found for absorbing gold was *Brassica juncea*, a Japanese species known as potherb mustard. After drying plants and grinding the leaves, the researchers measured 57 millionth of a gram of gold per gram of plant. Could have interesting possibilities, but growing the plant on mine slag or debris would seem to present a significant problem.

The Lek Trek 2000

Coming to an area near you (if you live in the western part of Missouri), is a cross-state adventure named after the "lek" or courting grounds of the prairie chicken. In the summer of 2000, the Missouri Prairie Foundation will launch the Lek Trek. It will span Missouri grassland areas from Iowa to Arkansas, and will end in October at Prairie State Park.

It will work like this. Volunteers will raise pledges for the trek. Then in the spring, everyone will have a chance to join the trek for a mile or more somewhere along the route. You can hike it, bike it, walk it, or even run your mile.

The Lek Trek is part of a campaign designed by the Missouri Prairie Foundation to raise public awareness about the demise of grassland animals, the importance of grassland habitat, and the fact that the Grassland Coalition is seeking funds to assist land managers (both public and private) with improving grasslands.

If you are interested in the Lek Trek and want to learn more about it, write to The Grasslands Coalition, PO Box 1655, Blue Springs, MO 64103-1655.

MONPS is a member of The Grasslands Coalition.

Master Gardener State Convention

18-19 SEPTEMBER 1999

by Dorothy Hickam

The Master Gardener's will hold their state convention in Cape Girardeau, MO, 18-19 September 1999. Each year, one of the Master Gardener groups within the state plays host to the state convention and this year it is the turn of my own Southeast Missouri (SEMO) Master Gardeners. We have put together two days of programs, classes, demonstrations and tours.

Saturday:

- Pickle Springs Natural Area
- A greenhouse tour
- Pensel azalea tour and video
- Semo campus gardens tour
- City gardens tour
- Making bent twig trellises, by Don Koehler
- Making live herbal wreaths, by Christie Fredricks
- Ceramo pottery tour
- Lorberg Farms tour
- Master Gardener's banquet Sat night.

Sunday - Classes will be held on the SEMO campus at

Dempster Hall and includes these classes:

- Botanical Latin Names, by Dr. Charles Korn
- Identifying Your Soil, by Kevin Godsey
- Hybridizing Iris, by Dave Niswonger
- Bonsai, by Pat Steinborn
- Antique (Heirloom) Roses, by Jeff Oberhaus
- Collecting Seeds and Propagation of Native Plants, by Dr. Bill Edelman
- Composting, by Mel Zeleniski
- A late afternoon "Chinese auction"

If any MONPS person would like to attend any or all of the convention, please contact Nadine Davis, 3323 County Road 645, Cape Girardeau, MO 63730 or phone her at 573-334-2969. Our class teachers are top-notch folks who are generous enough to let us learn about their areas of expertise. The tours and other activities are a terrific way to learn by doing and gives you the chance to broaden your own knowledge and interests. I invite any MONPS member who might be interested in any of the above to join us for an educational and entertaining weekend.

The SEMO Master Gardeners have offered free space for MONPS to display our various MONPS fund-raising items and educational information. Contact Pat Grace, 314-961-2511, to volunteer to help staff this booth.



20th Annual Cuivre River State Park Nature Photography Contest

Amateur photographers will have a chance to display their skills during the 20th Annual Cuivre River State Park Nature Photography Contest. Sponsored by the Missouri Department of Natural Resources, the contest is open to amateur photographers of all ages. There is no entry fee.

There are four categories: flora (any wild plant in Missouri); wildlife (any native amphibian, reptile, bird or mammal in the wild in Missouri); miniature world of nature (insects, spiders, mosses, fungi, etc. in the wild); and state park landscape (a scene from a Missouri state park). Three prizes will be awarded in each category; only one prize will be awarded to each photographer.

Each photographer may enter a maximum of eight photographs. Only prints may be submitted, and they can be either color or black and white. Photographs taken with digital cameras, or digitally enhanced, are not eligible. Photographs (including mats) must not exceed 17 inches in width; the minimum size for entries is 3 x 5 inches. Photographs will be judged on photographic skill, subject matter, creativity and difficult in getting the photograph.

Entries will be accepted daily at the park visitor center from Sept. 1 through Sept. 30. Entries also may be mailed to Cuivre River State Park, 678 St. Rt. 147, Troy, MO 63379. Photographers should put their name on the back of each photograph. To have photographs returned by mail, a 6 x 9 inch or larger self-addressed envelope should accompany the entry.

Entries will be on display at the visitor center between Oct. 9 and Oct. 16. At 1:00 PM on Oct. 16, the winners will be announced and winning photographers may choose from available prizes.

For more information about the contest, contact Bruce Schuette at Cuivre River State Park at 636-528-7247 or call the department toll free at 1-800-334-6946 (voice) or 1-800-379-2419 (TDD).

Letters

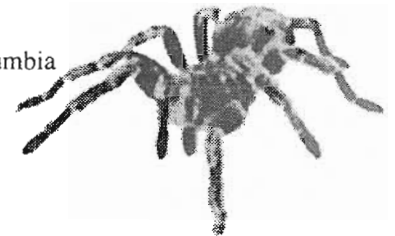
Dear Editor:

I am a graduate student at the University of Missouri-Columbia under Dr. James Carrel. The topic of my research is the effect of fragmentation on the genetics and mate searching behavior of tarantulas. As part of my Ph.D. dissertation, I would like to determine the distribution of tarantulas in Missouri. It was suggested that the Missouri Native Plant Society might be a source of information since many rare plants are found only or primarily on glades and tarantulas are believed to be limited to glades and dry woodlands. Would it be possible to include this request for information from your members in the Petal Pusher?

I realize that many of the glades in Missouri are located on private land and that plant poaching and trespassing are problems in the state. I can assure you that any data obtained regarding their presence on private (and probably public) property will not be released to the general public.

Unfortunately, most of the data regarding tarantulas in Missouri have been derived from casual observations, speculation and anecdote. To date there has been no systematic assessment of the distribution map of tarantulas in Missouri based upon recent and past field observations from as many reliable sources as possible. As a result, I am requesting anyone with first hand knowledge regarding presence of tarantulas in Missouri send me the following information: date observed (as specific as possible), location (as specific as possible), the number of sightings per year (if applicable), contact information of contributor. I can receive information via e-mail tarantula@missouri.edu, phone (573-882-3037) or postal service (Tarantula, 105 Tucker Hall, Univ. Missouri, Div. Bio. Sci., Columbia, MO 65211)

Sincerely,
Margaret E. Janowski-Bell
University of Missouri-Columbia



INFORMATION ON JOINING MISSOURI NATIVE PLANT SOCIETY

SOCIETY DUES		CHAPTER DUES	
(Chapter dues additional)		Columbia	\$6.00
		Jefferson City	\$5.00
Student	\$5.00	Kansas City	\$5.00
Regular	\$9.00	Osage Plains00
Contributing	\$20.00	St. Louis	\$5.00
Life	\$200.00	Springfield00

(Circle all that apply)

Make check payable to: Missouri Native Plant Society
Mail to: Donna Kennedy, Treasurer
816 Samone Ct., Ballwin, MO 63021

Name _____
Street _____
City, State, Zip _____
Phone _____
e-mail _____

- Fall Field Trip & Board Meeting
- MONPS Awards Announced
- IBC Update & Art Award

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