



September - October 2003

Vol. 18, No. 5

Missouri Native Plant Society

September

- 5 - 7 Fri. - Sat. **Fall Field Botany Trips & State Board Meeting.** See Page 3 for schedule, directions and information about accommodations. All members and friends are welcome!
Cape Girardeau
- 8 Mon., 7:00 PM **Richard Guyette, Research Associate Professor in Forestry** will speak at the Hawthorn Chapter Regular Meeting. Held at the Unitarian Church, 2615 Shepard Blvd.
Columbia
- 15 Mon., 7:00 PM **Osage Plains Chapter Annual Meeting** with Carolyn and Bud Henzlik, slightly over two miles south of Appleton City. Plan the food you will bring for this potluck dinner.
Clinton
- 18 Thurs., 7:00 PM **Kansas City Chapter Monthly Meeting** held at the Discovery Center, 4750 Troost. Program to be determined.
Kansas City
- 20 - 21 Sat. - Sun. **Heritage Festival at Nifong Park.** Please sign up to help with the booth, #84.
10 AM - 5 PM
Columbia
- 24 Wed., 7:30 PM **Mike Arduser, MDC Natural History Biologist,** will present a program entitled, "Beauty and the Bees, Some Relationships Between Bees and Flowers in Missouri" at the St. Louis Chapter Monthly Meeting. Meet at Powder Valley Conservation Nature Center, 11715 Cragwold Dr., Kirkwood (off Geyer between Watson and Big Bend, just north of bridge over Interstate 44).
St. Louis
- 27 Sat. **Possible Field Trip with Mike Arduser** to study bees and fall flowers. Details to be announced.
St. Louis

October

- 1 **Deadline for material to be published in the November - December *Petal Pusher*.** Please send meeting, field trip information, articles (typed double-spaced), photographs, comments, suggestions and corrections to the Editor by this date. Send Email in attachments to: bettyluvsinsects@yahoo.com
- 18 Sat. **Hawthorn Chapter Field Trip** to the Discovery Center, Kansas City. Details to be announced.
Columbia
- 22 Wed., 7:30 PM **Annual Members' Night** at the St. Louis Chapter Monthly Meeting. Bring slides from outings during the past year, or unidentified plants slides. Meet at Powder Valley Conservation Nature Center, 11715 Cragwold Dr., Kirkwood (off Geyer between Watson and Big Bend, just north of bridge over Interstate 44).
St. Louis

Meeting In Clinton, June 6-8

Missouri Native Plant Society Confers Awards

By Tim Smith, Awards Committee

Three of the five Missouri Native Plant Society awards were conferred by the Awards Committee this year at the annual meeting in Clinton. The recipients and the accomplishments for which they are recognized are as follows:

Julian A. Steyermark Award to the late **Professor Wallace R. Weber** for his lifetime achievements in teaching and research on Missouri's flora.

Wallace, known to his friends as Wally, attended Southern Illinois University and received his B.A. in 1956 and his M.S. in 1959. His Master's thesis was on the the flora of the Piney Creek area of southern Illinois and was done under the direction of Dr. Robert Mohlenbrock. Wally's Ph.D. in botany was from Ohio State University where he studied interbreeding in *Silphium* species. He joined the staff of the Biology Department at Southwest Missouri State University in Springfield in 1969, eventually becoming a full professor in 1979.

In 28 years at SMSU, Weber, along with Paul Redfearn and Grant Pyrah, was part of the most active program of instruction and research in field botany in any of Missouri's academic institutions. His students completed floras of Roaring River State Park, Grand Gulf State Park, Montauk State Park, Bona Glade Natural Area, Piney Creek Wilderness Area and the Jack's Fork River. At least two of his students went on to receive Ph.D.'s in botany. Wally taught General Botany, Plant Taxonomy, Advanced Plant Taxonomy, Aquatic Plants, Woody Plants and led numerous field trips to Arizona and Florida. He also led lots of Missouri field trips over the years for his classes and for MONPS gatherings. He contributed 3000 plant specimens to the Ozark Regional Herbarium, mostly from the Ozarks.

Wally attended the first meeting of what was to become MONPS in 1978 and then became a charter member of the Society when it was formed in 1979. He served on the Board from 1981-1989 and was on the *Missouriensis* Review Committee. He started the project that eventually became the Missouri Flora Atlas Project with the publication of 15 installments of the "Missouri Botanical Record" in *Missouriensis* from 1982-1992. Altogether, Wally published 22 articles in *Missouriensis*, mostly on new state records and range extensions. In 1970 he coauthored, with Redfearn, Pyrah, and Witherspoon, a report to the National Park Service titled "Botanical Survey of the Ozark National Scenic Riverways." He also published several articles in the *Missouri Prairie Journal*.

Wally continued on the biology staff at SMSU until his death in 1997.

Erna R. Eisendrath Memorial Education Award to **Scott Woodbury** for his continuing education of the public on the pleasure and benefits of landscaping with native plants.

Scott is Supervisor of Horticulture at the Shaw Nature Reserve at Gray Summit where he has been employed since 1991. On that property he began and maintains the five-acre Whitmire Wildflower Garden, a native plant garden that is currently exposing more people to Missouri's native plants than any other area attraction. The garden consists of native plants arranged in many different habitats as well as plants for the home garden and plants used by Native Americans.

Two events at the Nature Reserve that provide extensive public exposure to and education about native plants were begun by Scott: the annual Native Plant Sale and the biennial

Native Plant Conference. He also started the rapidly growing St. Louis Chapter of Wild Ones, an organization that promotes the use of native plant communities in landscaping, the protection of biodiversity, and environmental education.

Plant Stewardship Award to **Charles Scherer** and **Robert Ahlvin** for their protection and restoration of sand prairie and associated rare plants on their Scott County, Missouri properties.

Mr. Charles Scherer and Mr. Robert Ahlvin have contributed greatly to sand prairie conservation in southeast Missouri through their management of 240 acres of adjoining land over the last several decades. Both properties are important repositories of rare sand prairie plants.

Mr. and Mrs. Ahlvin purchased their 80 acres of land about 30 years ago. At the time the property was overgrazed and subject to substantial wind erosion. They began a program to reduce erosion, which allowed many native sand prairie plants to reestablish. They have worked with the Missouri Department of Conservation to restore sand prairie and savanna by thinning trees, planting with locally-collected seeds, and prescribed burning. Today there are at least five plants of conservation concern on their property, including a very large population of Hall's bulrush.

Mr. Charles Scherer inherited his 80 acres from his father and later purchased an additional 80 acres. He has managed the property in a way that allows native plants to survive and thrive by leaving remnant native sand prairie patches and allowing other areas to revegetate with native species. He has protected his property and the Ahlvin's property from ATV trespass and has allowed access by MDC staff and researchers. Mr. Scherer's property provides habitat for at least 14 plants of conservation concern. Dr. Marian Smith was welcomed to conduct research on Hall's bulrush on the property. Current projects include the revegetation of 5 to 10 acres of former crop field with locally-collected seed of sand prairie species. Mr. Scherer has a genuine interest in the natural world and enjoys sharing his land with others.



Fall 2003 Field Botany Trips & Board Meeting

September 5-7, Cape Girardeau, MO

Members and friends are invited to join us as we explore two sand prairies with many state-listed plants, one has a wet swale; enjoy a picnic lunch, or grab some fast food; then, enjoy an afternoon walk in the forest of Holly Ridge C.A. in search of orchids and other rare plants. Hope to see you there!

ITINERARY

- 5 Sept. Fri., 7:00 PM** **Evening Get-Together.** Held at the Missouri Dept. of Conservation Office, 2302 County Park Dr., Cape Girardeau, MO 63701, 573-290-5730
- 6 Sept. Sat., 8:00 AM** **Field Botany Trip to Ahlvin/Scherer property.** Leave the Drury Lodge parking lot in Cape Girardeau. Take I-55 south for ca. 14 mi to MO Hwy 77. Take MO 77 SE ca 2.0 mi and turn S (right) onto paved Co. rd. 505. Go S for 1.0 mi and turn W (right) onto paved Co. rd. 506. Go W about ¼ mi to Scherer house on right. This sand prairie area has numerous state-listed plants, most of which are restricted to sandy sites in SE Missouri.
- Sat., 10:30 AM** **Leave Ahlvin/Scherer Property and Drive to Charleston Baptist Camp.** Go back N on Co. rd. 505 to Hwy 77, turn SE (right) onto Hwy 77. Baptist Camp is at ca ½ mi on right. Park near S end of parking lot. Here we will see more sand prairie with a wet swale.
- Sat., Noon** **Lunch.** Eat lunch at picnic tables near swimming pool at Charleston Baptist Camp or drive into Sikeston for other dining opportunities and restrooms. Restrooms are also available at McDonalds or Boomtown at the MO Hwy 77 / I-55 intersection. Picnic area and privies are located near Visitor's Center. Bring your own lunch and drink.
- Sat., 1:00 PM** **Leave Camp for Holly Ridge Conservation Area,** just NE of Dexter. Take I-55 S to Sikeston, turn W onto Hwy 60 and drive about 18 miles W turning N from Hwy 60 onto county rd 531. At ½ mi turn left at "T" intersection onto co. rd. 570. At 0.7 mi, turn back N (right) onto co. rd. 527, cross RR tracks and park at Pleasant Valley Church on SW corner of next intersection (NW quarter of section 6).
- Sat., 2:00 PM** **Afternoon Field Trip at Holly Ridge C.A.** We will walk into a forested area with a spring and American beech, American holly, several orchid species and other rare plants. We will need to leave this site in time to get to the Board Meeting in Cape Girardeau. It will take ca 1 hr to get back to Cape Girardeau.
- Sat., 7:00 PM** **MONPS Fall Board Meeting.** Held at the Missouri Dept. of Conservation Office. All members and friends are invited to attend this informative meeting.
- 7 Sept. Sun., 8:00 AM** **Field Botany Trip to Vancill Hollow Natural Area** within Trail of Tears State Park. Meet in the Drury Lodge parking lot.

LODGING

Drury Lodge

104 South Vantage Street
Cape Girardeau, Missouri 63703
573-334-7151

The Drury Lodge Cape Girardeau is located at Interstate 55 and Route K Exit #96.

Guests Receive Free Hot Breakfast - Best In Town!

Super 8 Motel

2011 North Kingshighway
Cape Girardeau, MO 63701
573-339-0808

Be sure to use the name of the Society to receive this rate. Interstate 55 and Highway 61 Exit #99 To The Property - From North - Turn Left At 99, Go Approx. 3 Miles, Motel Located To The Right. From South - Turn Right At 99, Go Approx 3 Miles, Motel Located To The Right.

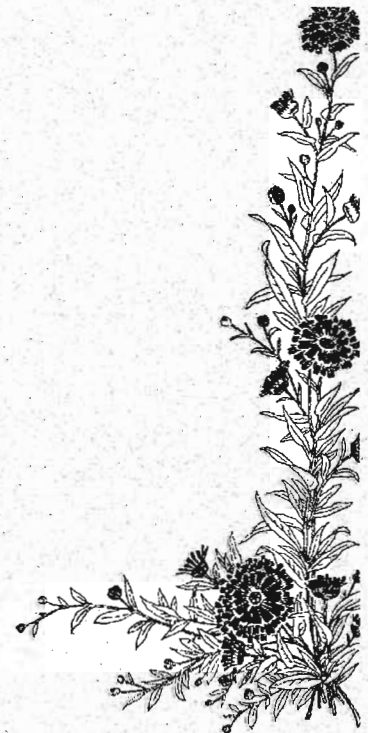
Our Group Guaranteed Room Rate Of \$70 Plus Tax.

Pear Tree Inn

3248 William Street
Cape Girardeau, Missouri 63701
573-334-3000

Pear Tree Inn Cape Girardeau is located at Interstate 55 and Route K Exit #96.

Limited Number Of Rooms Available September 5.



Petals & Wings

Betty Walters, Editor



The cold spring rain had begun May 4th before daylight. David Larson, field station manager at Washington University's Tyson Research Center, located off the I-44 Antire Road exit, would later record a total of 1.46 inches at the center's weather station making that Sunday the wettest day of the month.

Yet, early that morning, I had eagerly left the warmth of my home to take part in something I have come to enjoy - no matter what the weather. By 9:00 a.m. I was sitting in my parked car along a dead end service road West of Eureka watching the 18-wheelers roaring East towards Tyson and showering lesser automobiles as the rain pelted the roadway. Scott Woodbury sat in a white Shaw Nature Reserve truck behind me, and other like-minded individuals were parking along the shoulder in front of me. Lightning flashed. Thunder rolled. We waited, hoping for a break.

I turned on the defroster, again, wiped the door window and saw Scott stop beside my car. I rolled the window down, and the water streaming off the top of my car in through the cracked window reminded me of a waterfall. "You can either stay here and wait for the others to come, or you can head up the service road where we will be planting," he said. The others drove away, and I stayed another 15 minutes.

When I arrived and parked at the Shell Service Station, I saw the rest of the group on the other side of the road, along the right-of-way. I quickly pulled on my vinyl poncho, slipped on my rubber boots and joined the group. The lightning had subsided, but was replaced by wind that whipped the rain against our bodies, stung our faces, and ripped at the coattails of our ponchos and parkas. I could feel my jeans and wool socks getting soaked.

We had come to plant and plant we did. The seeds, totaling almost \$12,000, had been donated by the Audubon Society and the Missouri Department of Conservation's Grow Native program for sowing along the I-44 right-of-way following completion of the highway widening construction project between Six Flags Road, Allenton, and the Franklin County line near Pacific.

Over the winter, the seeds had been kept under refrigeration at Shaw Nature Reserve (SNR) until the right-of-way was ready for seed sowing. The seeds had been divided into a dry prairie mix for broadcasting onto rocky areas and a mesic prairie mix for areas where topsoil was showing.

During May, most of the seeds were machine-broadcasted by the project's seeding contractor, who added annual rye grass to the mixes. The rest, without rye grass seeds, were hand-sown by we volunteers from Henry Shaw Ozark Corridor group, SNR, Wild Ones, Sierra Club, and the Missouri Native Plant Society on one-acre of the old Route 66 right-of-way and Long Ford in Allenton.

Three months later, on another Sunday, August 3rd I returned to see what seed had taken hold. The sunny summer afternoon felt blissfully sultry. The first plants to catch my eyes were the purple flowers of Ironweed, *Vernonia baldwinii*, and the glowing golden petals of Black-eyed Susans, *Rudbeckia hirta*. Two European Cabbage butterflies, a gray hairstreak, two pearl crescents and an Eastern-tailed blue fed from the dainty pink blooms of the Northern fogfruit, *Phyla lanceolata*, at my feet.

As the noisy cars, trucks and motorcycles zipped along the service road, a clouded sulphur and an alfalfa butterfly, were the only things I saw moving as they fluttered above blossoms of Black medic, *Medicago lupulian* and Rose verbena, *Glandularia canadensis*. I was admiring the white flowers and ripening seedpods of Illinois bundleflower, *Desmanthus illinoensis*, when a little sulphur startled me as it took flight; then, quickly settled down again a few feet from me among the green rosettes of Grayheaded coneflower, *Ratibida pinnata*, Tickseed coreopsis, *Coreopsis lanceolata*, and Purple coneflower, *Echinacea purpurea*.

Honey bees and bumblebees busily worked among the Narrow-leaved vervain, *Verbena simplex* and Pinkweed, *Polygonum pennsylvanicum*. Band-winged grasshoppers rose up and darted this way and that in front of me as I walked between the bunch grasses. Ladybird beetles scurried along the blades searching for aphids and scale insects. A male fiery skipper sat warming himself on a small gray rock embedded in the clay soil. A common green darner, with his olive-colored head and thorax, would have been perfectly camouflaged among the grass if it were not for his pale blue laterally striped abdomen.

Returning the way I had come, I wistfully watched a lone Monarch come sailing in from the West directly at me. She adjusted her flight pattern and soared passed me on my left side. For a brief second, we were almost eye-to-eye. I quickly turned to watch her glide eastward, out of sight along the adjacent railroad tracks. I was pleased to see the stand of Butterfly weed, *Asclepias tuberosa*, planted on her behalf, in full orange bloom. I examined the plants for Monarch eggs, found none, but spotted a pair of Milkweed bugs instead.

Standing along the roadside, waiting for the cars to pass, my thoughts took me back to that first Sunday in May. Nancy Gelb, Nels Holmberg, Jonathan Behr, Janet & Joe Williamson, Judy Allmon, Ed Schmidt, Carol Krieger, Nathan Zanser, Linda Chambers, Scott Woodbury and I had gathered, wet, tired and contented with our efforts, around a couple of tables in the McDonald's for a late breakfast. We drank coffee and listened as Scott talked about the donation and care of the seeds, and how the project to establish native plants along the I-44 Henry Shaw Ozark Corridor from the Missouri Botanical Garden to Shaw Nature Reserve was progressing. Scott had called our work dedication. To me, it is passion.

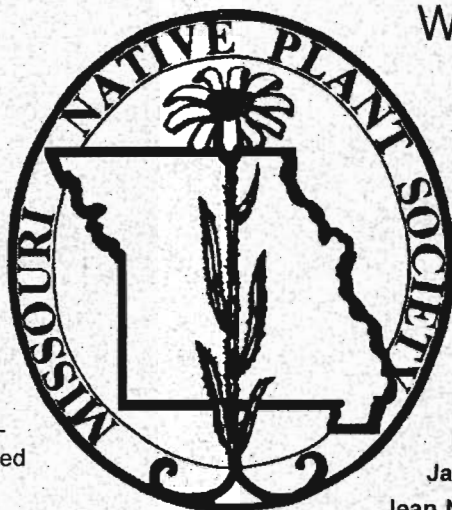
We had come out into the elements that spring morning, of our own free will, not to battle nature, but to lend our helping hands. We had planted well cared for fertile seeds with knowledge, hope and faith. They have taken root in their native soil. I had come back to find summer flowers. Looking back at the planting, one more time before crossing the road to the parking lot, I knew what I had found was more - a flowering, harmonious, healthy, working community.

"What is life? It is the flash of a firefly in the night. It is the breath of a buffalo in the wintertime. It is the little shadow which runs across the grass and loses itself in the sunset. ~Crowfoot, Blackfoot Warrior and Orator

The Mission:

Promote
Educate
Publish

The purpose of the Society is to promote the enjoyment, preservation, conservation, restoration, and study of the flora native to Missouri; to educate the public about the values of the beauty, diversity, and environmental importance of indigenous vegetation; and to publish related information.



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.

J. Alan Myers, Edwardsville, KS
Paul H. Harris, Independence
Robert Remmert, Ferguson
Joseph Ely, Warrensburg
Eric Bohle, Columbia
Doris Linhardt, Wooldridge
Elizabeth Mowry, Trimble
James Shellhammer, Lee's Summit
Jean Neumann, Independence

A Note from...

Our New President

Just wanted to take a minute to introduce myself. I am Kathy Thiele, and I am replacing Jack Harris as State President of MONPS. I have a Bachelor's Degree from the University of Missouri, Columbia, in Fisheries and Wildlife, but I have spent most of the last 20 years raising my two children.

I worked from 1996 to 2002 as a part-time naturalist at the August A. Busch Conservation Area where I volunteered from 1992 to 1996. I am presently doing a summer stint (more for fun than anything) as a temporary with the Fisheries Division and then, I am back to being a volunteer naturalist at Busch again.

I would like to thank Jack Harris for the great job he has done all these years as President and Pat Harris, as well, because I know spouses always get involved. I am sure I won't totally be able to fill Jack's shoes (Size 10?), but just let me know what you need and I will try to get the job done.

Hope to see you at the next state meeting.

Kathy Thiele

MOB Events of Interest

SEPTEMBER 12 - 14

Native Plant Conference begins Friday evening, Sept. 12 and continues through Sunday, Sept. 14. Shaw Nature Reserve of the Missouri Botanical Garden, Gray Summit, MO, 25 miles west of St. Louis on I-44, exit #253. By reservation only. For information, call (636) 451-3512.

SEPTEMBER 27 & 28

Butterfly House "Fall Festival." A fun-filled, informative weekend featuring hands-on gardening activities, demonstrations and question-and-answer sessions by plant and wildlife specialists, artists displaying and selling art from nature, food hot-off-the-grill (for a nominal fee), crafts for kids, live music and great deals at a silent auction. Activities included with Butterfly House admission or membership. 9 a.m. to 4 p.m. Sophia M. Sachs Butterfly House & Education Center, 15193 Olive Blvd. at Faust Park in Chesterfield, MO. For information, call (636) 530-0076.

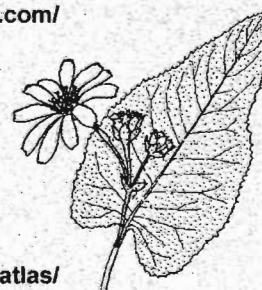
Alana Dudley, Independence
Greg Reeves, Lee's Summit
Tiffany Looney, Raymore
Julie Madsen, Pleasant Hill
Sheila Pickard, Lee's Summit
Lynda DeLozier, Belton
Dennis Berry, Doniphan
Glenda Ramsey, Independence
John Dunnegan, Cedar Hill
Kathie Gridley, Lee's Summit
Glen Gill, St. James
Bruce Beck, Poplar Bluff
Elizabeth and Christine McCartney, Dixon
Linda Bender, Lake Saint Louis
Stacey Ramsey, Independence
Steve Swenson, Corvallis, OR
Phillip Fitzwater, Norborne
Matthew Brown, Independence
Jim Alsbury, Kansas City
LaToya Williams, Kansas City
Dorothy Cole, St. Louis
Rudolph Pieters, Kansas City

MONPS Chapter Web Sites

•Kansas City www.angelfire.com/mo2/kcmonps/
•Columbia <http://www.digmo.com/npsboco>

WWW. 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



A Round of Applause for Osage Plains' Success

June 2003

Beth Walker, President
Osage Plains Chapter, MONPS
106 E. Clinton St.
Clinton, MO 64735-2124

Dear Beth,

On behalf of the members of the Missouri Native Plant Society, I wish to express my sincere appreciation for hosting the Society quarterly meeting of 6 - 8 June 2003.

In particular, we thank you and Chris and for the invitation to visit your lovely home on Friday and Saturday evening. The food, social ambience and gracious hospitality was highly exemplary. The meeting room facilities at the Chamber of Commerce were outstanding.

A special thanks to David Lindell and Carrol Eaglesfield for planning, organizing and leading the field trips. I heard many complimentary comments about the days outings. The sandstone outcroppings and associated flora were a treat to explore.

Please convey my 'Well Done!' to all the members of the Osage Plains Chapter for the dedication and effort expended. The result was a memorable success.

Sincerely,

Jack H. Harris
Immediate-past President

St. Louis Chapter News

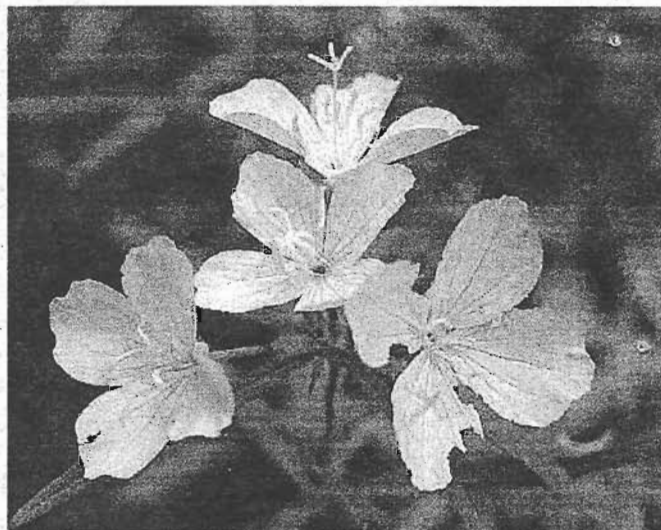
By Pat Harris

Our April program was a second try for Gretchen Walters since the January meeting was canceled because of snow. She spoke to us on Spring Annuals in the Sonoran Desert, or "When it rains, it flowers: How Sonoran Desert spring blooms work." She was in Arizona for two years to study this subject. Unfortunately it did not rain while she was there, and she had to do most of her work in a greenhouse.

In May, George Thornburgh gave us a pictorial "Safari in Tropical East Africa: Big Animals and Amazing Plants."

We had one field trip this spring. Bill Summers led a group to the Big Spring Area, Ozark National Scenic Riverways to see the large yellow Lady's slipper, *Cypripedium calceolus* var. *pubescens*. The timing was perfect. Those who ignored the rainy weather in St. Louis were able to see several areas with many slippers in full bloom.

The Master Naturalist Certificate program (sponsored in part by MONPS) for the spring included a workshop on Missouri Glades: Ecology & Plants, presented by Jack and Pat Harris. The workshop started with a lecture - slide presentation followed by three Saturday field trips to different types of glades: igneous, dolomite/limestone and sandstone. Twenty-two people signed up, and 20 actually were present for at least one class, with 10 present for all four sessions. One field trip was threatening rain, the second actually did produce a shower, but the last was a nice sunny day.



Oenothera fruticosa ssp *fruticosa* found in the Mark Twain National Forest in Oregon County north of Wilderness, on May 25, 2003. Julian Steyermark first found this plant there on May 25, 1938. Listed S1. Photo by Nels Holmberg

The Search for Shrubby Sundrops

By Nels Holmberg

Slowly driving along the almost abandoned Forest Service road, concentrating on the topo map in my lap, it took some time for the realization to surface that the yellow flowers I was driving over weren't the usual *Coreopsis* which is abundant in the area.

They are *Oenothera fruticosa* ssp *fruticosa*.

Here I was, four miles off the paved road, two miles north of Wilderness, MO, to update old records of rare plant sighting, and I am driving over the state listed (S1) plant I came to find.

Julian Steyermark collected *Oenothera fruticosa* in this area on May 24, 1938. Now, 65 years later to the day, there are 83 plants, most in flower, in and along the roads. Steyermark's herbarium sheet listed its habitat as cherty, open woods. A long search of the area reveals a lot of thick, post-logging woods with no *Oenothera*, but even in the more open woods no more plants were found.

The flowers are striking, and fully open at noon this day. It is taller with a smaller flower than Missouri evening primrose, *Oenothera macrocarpa*, and has a larger flower on a shorter plant than common evening primrose, *Oenothera biennis*. To make sure it's the right plant, I sit beside one in the middle of the road and go through the key: in Steyermark's Flora of Missouri. Yes, it has yellow petals, erect stems, leaves with small teeth, a 4-angled ovary, 30 mm. long petals, stems with appressed hairs, and no knob-tipped hairs on the fruit.

Check out the color photograph on the MONPS web site:
www.missouri.edu/umo_herb/monps

Missouri Plants Of Concern: A Measure Of The Condition Our Condition Is In!

By Jack H. Harris

The following table presents a summary count of the lichens, plants and natural communities that have been ranked as to their degree of imperilment in Missouri. It is derived from

the Missouri Department of Conservation report "Missouri Species & Communities of Conservation Concern Checklist - January 2003". Note however that the "TOTAL MO TAXA" values in the right hand column are estimates from other sources.

PLANT TYPE	S1	S2	S3	SH	SX	OTHER	#LISTED	TOTAL MO TAXA (EST.)
Lichens	12	2		1		11	26	= 436 ¹
Liverworts & Hornworts	10					9	19	
Mosses	46				1	40	87	= 400 ²
Ferns & Allies	11	7		1	1	5	25	
Flowering Plants	189	101	16	86	4	72	468	= 2,382 ³
COMMUNITY TYPE								
Forest & Woods	1	5		1				
Savanna	1	1		4				
Prairie	2	6						
Glade		1						
Wetlands	1	2				1		

Definitions:

(a) For species rankings: S1 = Critically imperiled, extremely rare, or especially vulnerable. Five or fewer occurrences in MO; S2 = Lesser degree of rarity, or vulnerability. Six -20 occurrences in MO; S3 = Rare and uncommon, 21 to 100 occurrences; SH = Historical record (not seen in approximately 20 years), but may be extant/rediscovered; SX = Extirpated, no longer in MO; Other = Aggregate of various other rankings due to lack of data, uncertain sources, etc. ⁴

(b) For Natural Community rankings: A new ranking criteria based on type, number of occurrences, total acres, number of counties, protection status, threats, etc.

A companion MDC publication that contains descriptions and illustrations of 37 of the listed plants which are at the greatest risk is *Missouri Plants Of Conservation Concern*, by Tim Smith, 2000.

For complete species listings, definitions, and details see the above listed publications. MDC publications are available by request to Missouri Department of Conservation, P. O. BOX 180, Jefferson City, MO 65102-0180; 573-751-4115.

¹The total number of Lichens (taxa) in Missouri as reported in *Checklist and Bibliography of Missouri Lichens* by Douglas Ladd, 1996; Conservation Commission of Missouri.

²The total number of native taxa of Bryophytes (Liverworts & Mosses) in Missouri as estimated in *The Biodiversity of Missouri: Definition, Status, and Recommendations for its Conservation*, 1992. Missouri Department of Conservation and the Mark Twain National Forest, USFS.

³The total number of native taxa of vascular plants (Ferns & Flowering Plants), 1997 estimate. See Table 7, page 83 in Steyermark's *Flora of Missouri*, Revised Edition 1999, by George Yatskievych. Missouri Department of Conservation and the Missouri Botanical Garden.

⁴The S1-S3, etc., ranking system was developed by The Nature Conservancy, Conservation Science Division and adapted for use by MDC.

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
 Jefferson City \$5.00
 Kansas City \$5.00
 Osage Plains00
 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 _____
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 City, State _____
 9 digit Zip _____ Phone _____
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- Fall Field Trip & Board Meeting Schedule
- Society Confers Awards
- Missouri Plants of Concern Update

Missouri Native Plant Society
P.O. Box 20073
St. Louis, MO 63144-0073

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