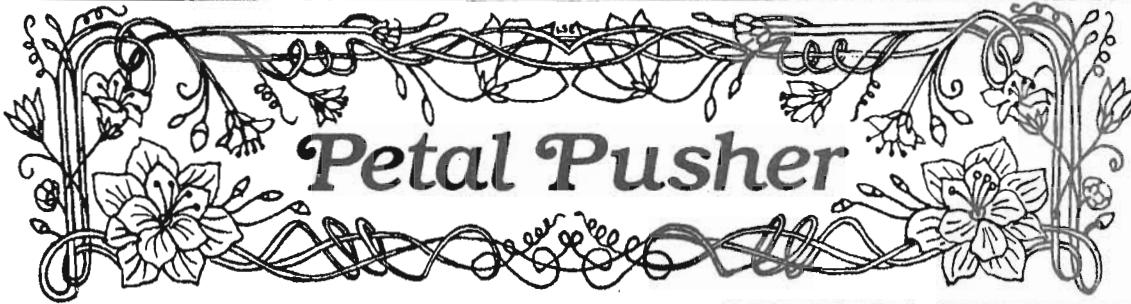


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# Missouri Native Plant Society

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~~Nov. - Dec.~~ Volume 3 Number 5, 1988

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Sept. - Oct.

## UPCOMING EVENTS

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- Nov 1, Tuesday, 7:30 pm, JC Chapter monthly meeting, Program: Ron Hansen, Landscaping with Native Plants.
- Nov 8, Tuesday, 7:00 pm, KC Chapter meeting at University Extension Bldg on 291 Highway just off I-70; call 472-0227 for directions. Program: Greg Hoss, Burr Oak Woods, Keying Winter Trees.
- Nov 12, Saturday, 10:00 am, KC Chapter Field Trip on Winter Trees at Burr Oak Woods Nature Center.
- Dec 3, Saturday, 10:00 am, MONPS State Board Meeting at Fish and Wildlife Service Building, Columbia.

NOTE: If your chapter's events are not listed here, it is because we have not received the information.

## EDGAR DENISON AWARD

The Missouri Botanical Garden is pleased to announce the selection of recipients for its Edgar Denison Award. Funds were donated some time ago by friends in honor of Edgar Denison, one of Missouri's most enthusiastic botanists, wildflower gardeners, and conservationists. The Denison Award is designed to help defray research expenses relating directly to field work and travel in Missouri by a student.

Three recipients were selected from among the applications. Young June Chang is a graduate student working with Dr. Steven Wolf at the University of Missouri, Kansas City, and is studying the flora of Osage Prairie in Vernon County. Yuki Gleason is an undergraduate working with Dr. Melvin Conrad at Northeast Missouri State University whose floristic research project centers on Sullivan County. Charlotte Zampini is a graduate student of Dr. Barbara Schaal at Washington University who is examining phenotypic plasticity and genotypic variation in Missouri populations of the native Jerusalem artichoke, Helianthus tuberosa.

Congratulations to all three of these award winners.

George Yatskievych, Chairman  
Edgar Denison Award Committee

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## SPRINGFIELD NATURE CENTER

The Springfield Chapter of MoNPS is going to participate in the planting of native Missouri wildflowers at the Department of Conservation's Springfield Nature Center. Chapter President Louise Wienckowski and Rose Kulhanjenan met with Center Director Dave Catlin on September 13 to look at the sites. There are four areas to be planted, three of which are around the Nature Center building and will be easily viewed by the public. One of these areas will serve as an attraction site for birds, small animals and butterflies. The fourth location is a large triangle in full sun that all visitors will pass as they approach the Center's parking area.

NOTICE: Following is the schedule for submissions to the newsletter. Material received after the deadline may not be printed.

| ISSUE   | DEADLINE |
|---------|----------|
| JAN-FEB | DEC 10   |
| MAR-APR | FEB 10   |
| MAY-JUN | APR 10   |
| JUL-AUG | JUN 10   |
| SEP-OCT | AUG 10   |
| NOV-DEC | OCT 10   |

A few species have been offered by Chapter members and others will be ordered from Missouri Wildflowers Nursery. Some of the planting may take place this fall, but to provide for adequate planning and planting, most of the work will be done in the spring of 1989.

Eleven Point continued

dolomite and the lower part of the west end is sandstone. Each type of rock has its own plant groups in addition to the usual mini-habitats of woodland floors, xeric bluffs, wet springs and bluffs and sunny and shaded areas.

Before long, the group split. One part continued over the hill and the other had lessons on mosses and liverworts by Mel Conrad.

Those who completed the hike saw 28 species of ferns and fern allies, foliage and/or seed pods of three orchids, pinesaps, false wood-lily, a natural arbor of wild grapes and many other plants. The high point of the day was the discovery of Ozark chinquapin, Castanea ozarkensis, by Rad Widmer. Linda Richards provided information about the many mushrooms in various shapes and colors and helped at least one of us to distinguish between mushrooms and wild turkey eggs. Some of us saw a beautiful big copperhead and some saw a hybrid between the blue lobelia and red cardinal flower - it is purple. Many of us found a yellow-jacket nest, poison ivy, cat briars and stinging nettles.

NOTE: Several people made plant lists. If you did, please send me a copy so we can print it. A photocopy of your handwritten notes is fine.

Sue Hollis

ELEVEN POINT RIVER

On Saturday, September 17, we began our canoe trip at the Greer Crossing at Highway 19 in Oregon County, just below Greer Spring. Because the spring contributes more than half the water at this point, the water is cold and the plant community included several species usually found in spring branches. Large mats of water cress are found for several miles. Since the water has a constant year round temperature, several plants which are usually found in warmer areas thrive on the river bank. Some examples are our native bamboo or cane, Arundo donax, the southern maidenhair fern, Adiantum capillus-veneris, and the gray polypody fern growing lushly on tree trunks overhanging the river.

Part way down the river, Tim Nye pointed to a huge bluff rising at least a hundred feet from the river and said there was a nice glade up there. So we paddled to the side of the bluff and up we went in shorts and wading shoes, right through catbriars and poison ivy. There was indeed a nice glade where we found Liatris cylindracea and aspera, pink obedient plant, Scutellaria Bushii, rattlesnake master, Notholeana dealbata and many other glade plants. Some of us were also treated to a pygmy rattlesnake.

Some of the group decided to stop at Little Hurricane Creek and hike back to see Viburnum recognitum while the rest went on.

Some other plants found on the river:

- |                        |                         |
|------------------------|-------------------------|
| Sparganium androcladum | Ranunculus longirostris |
| Mimulus ringens        | Myriophyllum            |
| Sagittaria latifolia   | heterophyllum           |
| Jussiaea decurrens     | Veronica cosmosis       |
|                        | Thelypteris palustris   |

The day was warm, the water fast and the float soon over with no canoes turned over. We stopped at the Turner Mill access where a picnic lunch and our dry clothes awaited us. Lunch was served by Dorothy Hollis. Jim and Linda Hollis had transported our clothes, cameras, etc., and put up a tent for changing. Jim also made sure we all stopped at the right place and did not go on down the river. Bill Summers Jr. found a pink cardinal flower at the picnic area.

After lunch, we started a hike over the hill on the south side of the river. The hill is mostly chert with some calcareous inclusions on the east end. The highest part of the ridge and upper west end are limestone/

TINGLER LAKE

On Sunday, September 18, Bill Summers led an expedition to Tingler Lake Natural History Area in Howell County. This area was recently acquired by the Department of Conservation and features a large natural sink hole and surrounding marshes and prairie. The area has been farmed in the past. Our most notable finds were Hydrolea ovata which had not been seen there since Steyermark found it in 1949, and one variety of the pale green orchid, Habenaria flava var. flava in bloom (var. herbiola also grows there). We also found a yellow jacket nest.

A partial list of plants found:

- |                           |                          |
|---------------------------|--------------------------|
| Hydolea ovata             | Cunila origanoides       |
| Nyssa sylvatica           | Croton capitatus         |
| Cephalanthus occidentalis | Yucca glauca var. mollis |
| Utricularia gibba         | Ruellia sp.              |
| Bidens discoidea          | Lindernia sp.            |
| Proserpinaca palustris    | Bacopa rotundifolia      |
| Ludwigia palustris        | Eleocharis sp.           |
| Hypericum walteri         | Dicliptera sp.           |
| Thalictrum sp.            | Lobelia cardinalis       |
| Diodia virginiana         | Setaria geniculata       |
| Eryngium prostratum       | Solidago gymnospermoides |
| Hypericum mutilum         | Rudbeckia subtomentosa   |
| Agalinus sp.              | Asclepias hirtella       |
| Juncus sp.                | Spiranthes cernua        |
| Cassia nictitans          | Pedicularis canadensis   |
| Chyropsis pilosa          | Polygala sanguinea       |
| Eupatorium serotinum      | Andropogon scoparius     |
| Pontederia cordata        | A. gerardi               |
| Pycnanthemum sp.          | Viola lanceolata         |

|                           |                                 |
|---------------------------|---------------------------------|
| Diodia teres              | Cacalia tuberosa                |
| Polygonum coccineum       | Lysimachia quadriflora          |
| P. pensylvanicum          | Habenaria flava var flava       |
| Sida spinosa              | Panicum scoparium               |
| Trichostema setaceum      | Juncus effusus                  |
| Pluchea camphorata        | Rotala ramosior                 |
| Lycopus virginicus        | Ammannia coccinea               |
| Boltonia asteroides       | Panicum sphaerocarpon           |
| Lobelia syphilitica       | Rhexia interior                 |
| Phlox glaberrima          |                                 |
| Eragrostis sp.            |                                 |
| Aster patens              | Submitted by Louise Wienckowski |
| Paspalum laeve            | Most identifications by Bill    |
| Cassia marilandica        | Summers                         |
| Verbena urticifolia       |                                 |
| Thalictrum revolutum      |                                 |
| Hibiscus lasiocarpus      |                                 |
| Scirpus sp.               |                                 |
| Belamcanda chinensis      |                                 |
| Iris virginica            |                                 |
| Elephantopus carolinianus |                                 |
| Gerardia flava            |                                 |
| Lonicera flava            |                                 |

Dr. Julian A Steyermark

MONPS members were saddened to learn of the death of Dr. Julian Steyermark, who died October 15 at the age of 79. His book, Flora of Missouri, served and serves as the reference bible on Missouri's plant for most of us.

Steyermark and his late wife, Cora, spent a decade scouring the state for plant specimens to be included in the Flora.

Beginning in the 1930s, they traveled from their home in Chicago, where Julian was employed by the Field Museum, to locations throughout Missouri collect and help preserve the state's botanical resources.

Cora recorded a behind-the-scenes view of their adventures and misadventures in her book, appropriately titled Behind the Scenes. "No day was ever too hot, too wet, too dry or too cold; no distance was too great or place too isolated to halt a planned hike" for collecting specimens, wrote Cora. The Steyermarks commonly traveled over a thousand miles a week on one of their excursions, at a time when roads were mostly two lane or unpaved, and roadside campsites were their typical accommodations.

At one point Julian suffered a cracked rib when he fell on a rock; undeterred, he continued his quest. "A man who is capable of persisting over and above the average modicum is equipped either with single-mindedness, or and exceptionally robust vitality. (Julian) was endowed with both," Cora wrote.

He applied them to a study of plants in the "Lost World" -- a region of Venezuela that earned its mysterious title from a 1912 Arthur Conan Doyle adventure story. Here he encountered exotic plants never before collected by man, including a 7-foot pitcher plant, Heliophora heterodoxa, that traps and consumes insects.

He and Cora resided for 25 years in Venezuela, studying plants in areas so remote some were accessible only by helicopter.

In 1984 he returned to the U.S. to publish the results of his "Lost World" expeditions. He was also involved with a joint effort of the Department of Conservation and the Missouri Botanical Garden to revise and update the Flora of Missouri.

A St. Louis native, Steyermark was recognized by the Guinness Book of World Records as the world's "champion plant collector" for his unprecedented number of specimens -- 137,000 species, 21,000 from Missouri.

Our Society's highest award, a Natural History Area and countless plants have been named for this pioneer botanist for whom no day was too hot, too wet, too dry or too cold, no distance too great or place too isolated to halt his singleminded pursuit of knowledge.

Our world has lost a great man and we shall miss him.

### SPRINGFIELD NATURE CENTER OPENS

The following article is excerpted from the Nature Center's newsletter, the "Harbinger."

With a few well-chosen words and a snip of his scissors, Governor John Ashcroft formally dedicated the Conservation Department's Springfield Nature Center on the afternoon of Thursday, October 6. Beginning the next morning, the center was open for everyone to visit. Nearly four years of searching, talking, planning and hard work will have borne fruit in this, the season of harvest.

Who will reap the benefits of the new center?

School children will come by the busloads to spice up their classroom work with three-dimensional, hands-on experiences in the Ozark woods. Since early in the year, volunteer teachers have been working with the nature center staff to plan field trip opportunities that will be both educational and exciting.

Conservation and nature-oriented organizations as diverse as the Greater Ozarks Audubon Society, The Ozark Mountain Paddlers and the Soil Conservation Service (not to mention the Missouri Native Plant Society) will be able to stage meetings and workshops at the building's auditorium and multipurpose room.

Scouts will hold hikes and Round Table meetings at the center, and serve their community by contributing time and labor to volunteer projects here.

Senior citizens may take advantage of the special indoor wildlife viewing area, or relax with a stroll along the center's 150-foot-long boardwalk.

Would-be wildlife photographers can try out our lake-edge photo blind, where the winter waterfowl will gather and pose (we hope).

Preschoolers will explore a please-touch exhibit area just for them.

And individuals of every age and interest will stop by to walk a trail, catch a program, or just relax amidst pleasant natural surroundings.

Who will reap the benefits of the Springfield Nature Center? You will. All you have to do is visit. We hope we'll see you soon.

\* \* \* \* \*

The Area is open daily 8 a.m. to 6 p.m. from November 1 to March 31, and 8 a.m. to 8 p.m. during the remainder of the year. The building is open Tuesday through Sunday from 8 a.m. to 6 p.m. year-round.

#### JEFFERSON CITY CHAPTER NEWS

The JCMoNPS chapter has adopted 1½ acres of roadside on newly constructed Hwy 50 just west of Jefferson City. We will be planting a mix of native grasses and wildflowers in November. Member Mervin Wallace has worked closely with the Highway Department and the contractor to develop this project.

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#### JOB OPENINGS

The Natural History Section of the Department of Conservation has two openings for temporary positions. Both positions are described below.

For more information contact:

Don Kurz  
Assistant Natural History Administrator  
Natural History Section  
Missouri Conservation Department  
P.O. Box 180  
Jefferson City, MO 65102-0180  
314/751-4115

The Natural History Section, Missouri Conservation Department, has an opening for an individual to conduct natural features inventories of lands owned or managed by the Department.

In the spring of 1981, we decided to undertake an inventory of all Department of Conservation owned and managed lands, using techniques from the natural areas inventories to identify features of natural history interest. This will serve several functions. First, it will identify those land types meeting natural history objectives that are already owned by the Department. Secondly, it will enable the Natural History Section to provide input in the management process. Thirdly, we will be identifying areas of statewide significance for inclusion in the Missouri Natural Areas System.

In the State Land Inventory (SLI) we are looking for any feature of natural history value, of statewide or regional significance. This includes features such as glades, prairies, old growth forests, fens, sinkhole ponds, caves, springs, north-facing bluffs, geological features, snake denning sites, heron rookeries, and relict, rare and endangered species sites.

**Qualifications:** Botany background preferred; knowledge of natural communities and animals desirable; master's degree desirable.

**Employment Period:** January 1989 - ongoing

**Salary:** \$9.09/hr.

**Expenses and Mileage:** Reimbursed

**Location:** Central Office, Jefferson City

**Transportation:** Must provide own vehicle.

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The Natural History Section, Missouri Conservation Department, is beginning a 5-year re-entry project to sample the vegetational composition of three Missouri tallgrass prairies with reference to past management.

In 1984, baseline data was recorded on 12 units which received periodic management practices including burning, haying, grazing and resting. The second stage, 1989, will be part of a long term research project to determine the effects of various management techniques on the vascular plant composition of tallgrass prairies.

Methods involve sampling ninety 0.5m<sup>2</sup> rectangular plots (50 x 100cm) at each of the 12 sites. Canopy cover is recorded using the Daubenmire cover scale with modifications following Bailey and Poulton. Sampling is conducted over spring, summer and fall. A final report is required using statistical analysis established from the initial study.

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EMPLOYMENT OPPORTUNITY Cont'd  
(Prairie Study)

**Qualifications:** Botany background and knowledge of prairie systems desirable.

**Employment Period:** March - December, 1989

**Salary:** \$9.09/hr.

**Expenses and Mileage:** Reimbursed

**Location:** Nevada, Missouri or general area.

**Transportation:** Must provide own vehicle.