



JULY - AUGUST 1995

VOL. 10, NO. 4

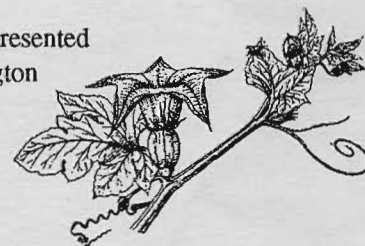
MISSOURI NATIVE PLANT SOCIETY

JULY

- 1** Sat., 8 AM
St. Louis **Field Trip to Fults Hill Prairie.** Led by Pat Grace. Meet at South County Shopping Center near the Tire Center at 8 AM or at Fults Hill Prairie at 9 AM.
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- 8** Sat., 8 AM
St. Louis **Field Trip to Iron Mountain and Bismark Lakes** in search of purple fringeless orchids. Led by Pat Grace. Meet at South County Shopping Center near the Tire Center.
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- 10** Mon., 7:00 PM
Columbia **Relationship of Soil Landscape to Distribution of Native Plants**, program presented by David Hammer, Associate Professor of Soil Science at the University of Missouri. Monthly meeting at the Midwest Science Center, 4200 New Haven Rd.
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- 14** Fri., 5:30 PM
Kansas City **Field Trip to Linda Hall Library-KCMO.** We will see the butterfly garden and more than 165 species of trees. This is the second of three visits. Park outside the gates at 5109 Cherry and meet near the front gate. If you're late walk in and look for us to the north.
-
- 15** Sat., 10 AM
St. Louis **Field Trip to Pickle Springs Natural Area.** A Nature Conservancy Field Trip, led by Jack Harris. Call (314) 968-1105 for more information or to register.
-
- 26** Wed., 7:30 PM
St. Louis **Rare Midwestern Plants in the Garden's Conservation Program** presented by Kayri Havens, Conservation Coordinator, Missouri Botanical Garden. Monthly meeting at the Missouri Botanical Garden, Ridgway Center.
-
- 29** Sat., 8:30 AM
Kansas City **Field Trip to Taberville Prairie.** We should catch the later summer flowers and see how prairies progress from spring to summer. Meet at Hypermart parking lot, northwest corner (87th St. exit off I-435, then south on Hillcrest Rd. to Hypermart.) Bring lunch and water.

AUGUST

- 5** Sat., 10 AM
St. Louis **Field Trip to Zahorsky Woods.** A Nature Conservancy Field Trip, led by Jack & Pat Harris. Call (314) 968-1105 for more information or to register.
-
- 5** **DUE DATE FOR MATERIAL FOR SEPTEMBER-OCTOBER 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.
-
- 23** Wed., 7:30 PM
St. Louis **Origins and Systematics of Cucurbita pepo** program presented by Kathie Schmid-Cahoon recent graduate from Washington University. Monthly meeting at the Missouri Botanical Garden, Ridgway Center.



MONPS Field Trips—April 22, 1995

by Lynda Richards

Good weather favored the Saturday field trips to several Mark Twain National Forest areas and other sites in Carter and Shannon Counties. Our first destination was Marg Pond Natural Area, a sinkhole pond on the broad upland between the Current and Eleven Point Rivers. This open marsh, ringed with button-bush and red maple, is a strange sight after traveling through miles of dry shortleaf pine and oak woodlands. Treading lightly as possible on the luxuriant sphagnum and other beautiful mosses, we circled the pond, noting last year's Hibiscus fruits. George Yatskievych pointed out leaves of *Glyceria acutiflora* (manna grass)* and *Torreyochloa pallida* (alkali grass)** floating on the water.



We stopped at nearby "DD Pine Savanna Restoration" managed by Eleven Point Ranger District, including biologist Jody Eberly, long-time MONPS member. Both fire and commercial timber sales are being used in the restoration effort. A variety of typical savanna plants were in bloom – *Sisyrinchium campestre* (prairie blue-eyed grass), *Viola triloba* (cleft violet), *Baptisia bracteata* (cream white indigo), and *Hypoxis hirsuta* (yellow star grass). *Andropogon gerardii* (big bluestem) and *Eryngium yuccifolium* (rattlesnake master) are also making a come-back. We discovered a large colony of *Platanthera lacera*, several having bloomed last year, which will be revisited this summer to confirm the species.

Next, we were treated to a kaleidoscope show of purple, yellow, lavender and red, along Brown Road south of Van Buren, scouted the previous day by the Harrises. *Delphinium tricorne* (dwarf larkspur) in all color phases, *Senecio obovatus* (squaw weed), *Phlox divaricata* (blue phlox), and *Silene virginica* (fire pink) were conveniently arrayed for eye-level display from car windows. Flowers of giant cane (*Arundinaria gigantea*), were photographed by several members. Up a hill, many *Iris cristata* (crested iris) were in full bloom at roadside.

After lunch we hiked a short way into Big Barren Creek Natural Area. More *Iris cristata* and several forms of *Trillium recurvatum* (bloody butcher) were found, and a single morel mushroom. A search for the state-endangered log fern (*Dryopteris celsa*), was inconclusive. Peculiar red alga-like underwater forms turned out to be early stirrings of yellow pond lily (*Nuphar lutea*).

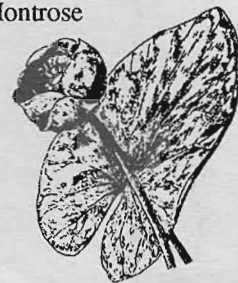


*Rare in Missouri
**Endangered in Missouri

Welcome to New Members

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

John E. DeLozier, Clinton
Joyce Duncan, Pacific
Debbie Ellison, Ballwin
John Herdrich, Cedar Falls, IA
Barbara Hogan, Adrian
Carole Kern, Cedar Falls, IA
Randall Kilgore, Rocheport
David Lindell, Clinton
John & Ruth Maynhart, Clinton
Marlene Miller, Calhoun
Liz Mueller, Kansas City
Dawn O'Neil, Ava
James D. Rauls II, Fredericktown
Carole J. & Robert G. Rohloff, Montrose
Ralph Rollins, St. Charles
Jack Toll, Mountain View
Scott Woodbury, Gray Summit
Dixie Yates, Rocheport
Marge Zubler, St. Louis



Native Plant Conference and Sale: A Vision for Rural and Suburban Landscape Management

On September 9, 1995, from 8:30 AM to 4:00 PM, a conference and sale will be held at Shaw Arboretum, of the Missouri Botanical Garden in Gray Summit, MO. The Arboretum is located 40 miles west of St. Louis off I-44 at the Gray Summit exit.

This conference will benefit those interested in preserving or restoring native plant communities of both large and small scale. Participants will learn how to distinguish various plant communities in eastern Missouri, to preserve and restore natural areas (prairies in particular), and to use native plants in the home landscape. Keynote Speaker is Neil Diboll, lecturer, nurseryman, prairie restorationist, and proprietor of Prairie Nursery in Westfield, Wisconsin. Other speakers are Mark Hall, Douglas M. Ladd, and Larry P. Lowman. In addition to the lectures, there will be a tour of the Whitmire Wildflower Garden in the morning, and a choice of prairie, wetland or glade tour in the afternoon.

The conference will be limited to the first 200 registrants. Registration is required. The deadline is August 1. Cancellations must be made in writing by August 1 (a \$15 processing fee will be held). After August 1, refunds will not be made.

Fee: \$30 before July 1; \$40 after July 1; \$20 for students; \$6.00 extra for box lunch (ham, turkey, veg.).

For more info contact Shaw Arboretum, P.O. Box 38, Gray Summit, MO, 63039, (314) 451-0850, (314) 451-0541 (fax).

Be On the Lookout For: *Agalinis skinneriana* & *Matelea baldwyniana*

by John Hays

I would like to ask the members of the Missouri Native Plant Society to keep an eye open for *Matelea baldwyniana* (climbing milkweed) in early summer and in late summer and fall for *Agalinis skinneriana* (pale gerardia) a false foxglove. The latter is a candidate for federal listing and a Watch List plant in Missouri. I'm working for Tim Smith of the Natural History Division at the Missouri Department of Conservation this year, and we are trying to locate as many sites as possible for these species.

Pale gerardia is scattered throughout the Ozarks (Barry, Jasper, Lawrence, McDonald, Morgan, Polk, Pulaski, Ripley, St. Clair, St. Genevieve, Shannon, and Washington counties) and the Osage Plains (Barton, Jackson, and Johnson counties), and from the bootheel in Dunklin county. *Agalinis skinneriana* occurs on rocky glades, in dry, open woods, and in dry prairies; it flowers from August through mid-October, has thread-like leaves, pink flowers with the lobes of the petals rounded, and flower stalks that are longer than the accompanying leaves. In addition, the plant has a yellowish-green appearance.

Climbing milkweed is located throughout the lower southwestern counties with stations also in Shannon & Phelps counties. It prefers rocky soils of thickets and open woods. *Matelea baldwyniana* is a perennial twining vine with opposite, ovate, leaves that are deeply cordate at the base and acuminate apex. The inflorescences are in the upper leaf axils with 4-20 flowers. Each flower is 1-1.4 cm in diameter, with green, lanceolate calyx lobes and 5 whitish, oblong corolla lobes, each lobe 8-12 mm long.

If you have seen the milkweed or the false foxglove, or see it while out in the field this year, please contact Tim Smith, Natural History Division, Missouri Department of Conservation, P.O. Box 180, Jefferson City, MO 65102-0180; or call (314) 751-4115, ext. 200. Thank you and Happy Botanizing!

Fund Raising Opportunity

The Missouri Native Plant Society has these items for sale:

| | |
|------------------------|---------|
| Crossed Socks T-shirts | \$10.00 |
| MONPS Bandanas | \$3.00 |

Contact Pat Grace for T-shirt colors and sizes in stock. If you need a supply to sell at one of your Chapter functions, let Pat know so arrangements can be made for transfer. (Address on back page.) Proceeds allocation will be in accordance with MONPS policy.

The Kansas City Chapter has these items for sale:

| | |
|------------------------|---------|
| Crossed Socks T-shirts | \$10.00 |
| MONPS Pins | \$4.00 |

If you would like a supply to sell at one of your Chapter functions, contact Sue Hollis, the Kansas City Chapter Rep. (Address on back page.) Proceeds allocation will be in accordance with MONPS policy. Prices negotiable.

Be in the Pages of the Future

Petal Pusher needs your help in presenting graphic representations of native plants or outdoor scenes to our readers. We need line drawings, sketches, or paintings of appropriate size to use as enhancements to the appearance of the newsletter. In particular we need graphics that will fit a variety of dimensions on a page, e.g., landscape layout: $\approx 8 \times 3$ inches; portrait layout: $\approx 3 \times 8$ inches; box layout: $\approx 3 \times 3$ inches or 2×2 inches, or others as you may prefer. (But no bigger than $8\frac{1}{2} \times 14$.) Black & white or color is acceptable. Color graphics should be of sufficient contrast to be suitable for scanning and digitizing and subsequent manipulation via computer placement techniques. Original materials will be returned if requested. Copyright to submitted materials will be retained by the *Petal Pusher* and the author. Full credit will be given in each issue the graphic is used. The *Petal Pusher* editor will retain discretion concerning the timing and frequency of use of the graphics for enhancement of MONPS publications. Please direct inquiries or questions to the editor (see back page).

Publications of Interest

by Jack H. Harris

THE FUTURE AND THE STATE OF HARMONY

The Missouri Department of Conservation (MDC) has issued its strategic plan for the management of 700,000+ acres of public lands for the years 1996-2000. These lands are dedicated to forest, fish and wildlife resources for the benefit, enjoyment and appreciation, now and into the future, of all Missouri citizens.

A copy of the plan (24 pages) entitled *State of Harmony: A plan for Missouri's people and land*, may be obtained by request to MDC, P.O. Box 180, Jefferson City, MO, 65102-0180. Readers are urged to review the plan and to provide their comments and recommendations to the Department.

GRASSLANDS AND FIRE

How, when and why one can safely conduct a prescribed fire for grassland management is described in a recent publication of the Missouri Department of Conservation. This method is recommended for conversion of cool-season grasslands to warm-season grasslands, to enhance the productivity of warm-season grasslands, and to suppress and control woody and undesirable plant species. Missouri's native flora has evolved with the presence of fire and thrive in the presence of such phenomena.

A copy of the pamphlet (12 pages) entitled *Planning and Conducting PRESCRIBED BURNS in Missouri* may be obtained by request to MDC, P.O. Box 180, Jefferson City, MO, 65102-0180.

New Chapter Formed



A new Chapter of the Missouri Native Plant Society was formed in April and officially sanctioned by the Board at the April meeting in Van Buren, MO.

The Chapter will be called the Osage Plains Chapter and is in the Clinton area, Southeast of Kansas City. The officers are:

President: Marlene Miller, 949 N.E. Hwy C, Calhoun, MO, 65323

Vice-President: Barbara Hogan, Rt. 1 Box 195A, Adrian, MO, 64735

Secretary: Carole Rohloff, Rt. 3 Box 182, Montrose, MO, 64770

Program Chairman: Mr. Carroll Eaglesfield, 707 Westview, Clinton, MO, 64735

If you live in this area, and are interested in becoming a Chapter member, please contact any of the officers.

We are all glad to have you join us.



Quarterly Board Meeting Highlights April 23, 1995

Vice-president Jack H. Harris presided in President Stephen Timme's absence. There were 14 board members in attendance at the Blue Heron Restaurant in Van Buren, Missouri.

The Treasurer's report, received later, indicated a balance of \$9,731.55 for an increase of \$1,221.16 since December 1994.

Committee Reports

Editorial Committee: Joanna Turner has moved to Colorado. She has withdrawn from the committee.

Environment/Education: Jack Harris testified in favor of HJR 18 before the House, and supported it before the Senate.

Membership: Pat Grace reported the sale of T-shirts and bandanas at Naturescaping 95 in St. Louis grossed \$58.00. She also presented a proposal for a new chapter. (See article above.) It was moved, seconded and carried (MSC).

Publicity: Nels Holmberg said he had sent articles to the local papers about this Board Meeting and Field Trip being held in Van Buren. Three people from the area attended the field trip because of seeing one of the articles.

Missouriensis: George Yatskievych reported the second issue for 1994 is at the printer. He has articles for the first issue of 1995. The *Petal Pusher* article generated responses.

Petal Pusher: Pat Harris stated the May-June issue is at the printer. It consists of only 4 pages due to lack of enough pertinent information. The list of members names were not printed, since the list is in the process of being purged of those whose dues are

not up to date. Ann Wakeman had sent a postcard to members in arrears.

Missouri Flora Atlas: President Stephen Timme has communicated with Wally Weber regarding the status of the *Atlas*. Wally subsequently discussed the current status with Jack Harris and advised that he would personally present a report to the BoD at the June meeting in Chillicothe.

Awards: George Yatskievych suggested the establishment of another award. One that would recognize a members service to MONPS. It was (MSC) that a Service Award be created.

Ballot Committee: A letter sent by Karen Yates declared the nominees for State Offices and Board Seats, winners by acclamation. (See April May 1995 *Petal Pusher*.)

Old Business

Midwest Oak Savanna & Woodland Ecosystem Conf: September 26-27. We will have a booth and can sell our T-shirts and bandanas. If anyone would like to help, please contact a MONPS officer. (See back page.)

Distribution of \$ Between Chapter & Society: The policy as submitted by Jack Harris in December was (MSC).

Badge Program: Pat Harris reported that Patti Redel, an education consultant with the Missouri Department of Conservation, has handed out our "Wear the Coneflower" brochures to some schools in her area. She concentrated on schools that have outdoor classrooms, and included it in the packets sent to middle schools for National Wildlife Week. She had a very favorable response from the teachers she talked to. Hopefully some of them will incorporate our Badge Program into their curriculum.

Joint Meeting with Illinois: Larry Morrison reported the Illinois NPS has accepted our proposal to meet in June 1996. They will set up a field trip in Illinois and we will set one up in Missouri. We will probably hold our respective meetings in Cape Girardeau.

Joint Meeting With Arkansas: Steve Timme received a letter from the Arkansas NPS, saying they would like to have two meetings with us, one in Arkansas and one in Missouri. No specific schedule has been determined.

Celebrating Wildflowers: We will contact the Nature Centers to inform them of when it will take place in 1996. It was (MSC) that George Yatskievych will work with the US Forest Service to make a poster or post card advertising the week for 1996.

Bylaws Committee Resurrected: Some issues that need to be addressed: 1) Awards; 2) Dues sent directly to State Treasurer instead of Chapter Treasurer; 3) Defunct Chapters - how to disband a chapter that no longer functions according to the Bylaws. If anyone wants to help on this committee, contact Sue Hollis. (Address on back page.)

New Business

Annual Dinner and Meeting: They will be held at the Carriage House at Strand Hotel in Chillicothe, MO, June 24, 1995.

Federal Native Plant Conservation Committee: It was (MSC) to become a cooperator.

New Treasurer: Jack Harris requests all the Chapters send him a list of their paid up member names and addresses.



Chapter News

Hawthorn (Columbia) — Hawthorn Chapter's latest community-oriented project involves a portion of Columbia's Greenbelt. The Greenbelt is envisioned to someday be a linear park connecting major natural areas such as Rock Bridge State Park and Grindstone City Park. One section recently purchased by the city lies along a small creek and adjoins a city park. We were asked by a nearby neighborhood association to help restore with native plantings a section of the Greenbelt torn up by developers of a subdivision. Member Nancy Thiher is chairman of the Project. Two planting sessions have been held at which members planted redbud, dogwood, oak, mulberry and sumac. Forbs will be planted in May.

At our January meeting, Kristin Agnew presented a program on Missouri's endangered plant species. Ann Wakeman gave a demonstration of wreath making using dried materials. Instead of purchasing straw forms for her wreaths, Ann uses dried sedge, a process she also demonstrated. In February, Dennis Schrock, who is in charge of the Master Gardener Program through the University of Missouri Extension Service, spoke on how to become a Master Gardener. In March, Bruce Palmer, Forestry Information Specialist for MDC, explained the State Champion Tree Program and described some of the specimens. Our emphasis turned from plants to fish at the April meeting. Ed Little, Research Biologist at the Midwest Science Center, described what he has learned about the effects of ozone depletion on fish in North America. However, it was pointed out that plants are not immune to such atmospheric changes.

Special activities have included a basket-making workshop with Pam Haverland; a Day With Wildlife booth; and a Columbia Earth Day booth.

Jefferson City — In January, Lloyd Grotjan gave a slide presentation on techniques of close-up photography, followed by a beautiful blending of his photos and original music. In February, Susan Burks did a program on Forest Disturbance in MO and their role in forest health. In March, Susan Forrest gave a presentation on growing and painting decorative gourds. In April, a program on Wild Edibles and Medicinal Plants was presented by Doug Remington.

We held nature walks at Runge Nature Center in Feb., March and April. Ramon Gass led a tree identification walk in Feb. There was a Wild Edibles field trip in March at Three Creeks State Park. We had a booth at the Spring Flower Show at Runge Nature Center.

The go-ahead was given to do some landscaping on our adopted trail at Runge Nature Center, the Towering Oak Trail. The plan is to do some plantings at some of the already established focal points. These include areas close to or at the trail

head, benches, fences, and bridges. The plants will be obtained through the Nature Center at no cost to our group and they will be labeled in the same fashion as other plantings on their trails. In April we planted 125 trees (tulip poplar, river birch, dogwood wild plum and Washington hawthorn) and about 50 perennials.

Kansas City — New Officers for 1995:

President: Eric Liskey

Vice President: Ed O'Donnell

Secretary: Dan Rice

Treasurer: Cathleen Johns

Chapter Representative: Sue Hollis

We started our year with a continuing series of monthly meetings featuring speakers, slide and video programs. We also schedule time at each meeting for visiting, sharing catalogs and books and trading plants. This has proven very popular and several new members said it made them feel more comfortable and easier to get to know everybody.

Our exhibit at the Kansas City Flower, Lawn and Garden Show in early February was very successful. We handed out more than a thousand fliers with membership information on one side and our spring schedule on the other. Attendance at the 6 day show was more than 10,000. Interest in wildflowers and native plantings was high and we were able to provide a lot of information and help. We also have gained at least three new members and several visitors from the show.

Field trips have been to Knob Noster State Park and to Merv Wallace's Nursery. Future field trips will include spring wildflower walks, orchids in Iowa and three visits to the Linda Hall Library Arboretum. We have been invited to inventory a large tract of Jackson County Park along the Missouri River and will begin that in June.

Individual members have been involved in some salvage activities and many of the plants are going to the Borroughs Audubon Library Garden, Linda Hall Library Arboretum and Guardian Angel Church Garden. Several members are establishing wildflower plantings in these places.

St. Louis — New Officers for 1995:

President: Mary Smidt

Vice President: Kayri Havens

Secretary: Jim Bogler

Treasurer: Catherine Filla

Chapter Representative: John Oliver

Our meetings are held on the fourth Wednesday of the month. Recent programs have included Skip Kincaid (urban trees), Denis Kearns (cucurbits), and Karen Haller (the making of *Walking With Wildflowers*). An upcoming meeting will feature Blane Heumann of the Missouri Nature Conservancy office speaking on computerized mapping of Missouri ecosystems.

The spring field trip season started in March with a trip to Creve Coeur Lake for more inventory, a project that has been going on for the past two years. More field trips are planned for later in April.

The Chapter had a booth at the annual St. Louis Naturescaping Symposium on March 25. Several items were sold, including t-shirts, bandanas, and back issues of *Missouriensis*.

NATIVE PLANT SOCIETIES THRIVE

New England Wildflower Society's Spring 1995 *Newsletter* carried information compiled by Mary Walker, author of the 1994 book *Gardening with Native Plants*. The author compiled a database listing 79 native plant organizations and botanical clubs. The New England group is the oldest native plant society (1900-1901), but several botanical clubs are older. The newest native plant societies are Indiana (1993) and Nevada (1992). Currently native plant organizations have at least 50,000 members nationally.

VIRGINIA CREEPER

The Oklahoma Native Plant Society's Winter 1994 issue of *Gaillardia* carried two interesting articles on Virginia creeper (*Parthenocissus quinquefolia*). The first, by Ann Randle, discussed ancient history of the plant and advantages for including in native gardens. She saw a print of a late 17th century English painting which showed Virginia creeper growing on a stone veranda. Having assumed the plant was native, she did some research and found that John Tradescant, 17th century plant collector, is credited with being the first to grow the plant in England, having received the plant from sources in the American colonies. Virginia creeper has been subsequently planted and thrives in many English gardens. The author likes the plant in her garden for adaptability, good ground/wall cover and brilliant red fall color. The second article, by Rebecca Troth, discusses the general characteristics and name of the plant. Since originally listed by Linnaeus in 1753 as genus *Hedera*, genus name changes have included *Vitis*, *Ampelopsis*, *Psedera*, before arriving at *Parthenocissus*. The author also searched a data base and found 18 journal articles on various aspects of the plant, all written since 1989, including several written in Chinese, Hungarian and Russian. Therefore, the conclusion is that Virginia creeper is thriving and well.



A NEW INVADER?

A recent landscaping article in a local weekly newspaper discussed advantages of planting perennials. An organization called The Perennial Plant Association has named *Pervoskia atriplicifolia* (Russian sage) as the Perennial Plant of the Year. The association, which tests perennials worldwide, has singled out Russian sage for its long season, ornamental effect and adaptability to most areas of the United States and Canada. The plant has silver stems, small grayish foliage with small light blue to lavender flowers. The flowers began in July and often last through September. The plant reaches a height of 4 feet and is categorized as a shrub with woody base. The leaves are slightly toothed, 38 mm long, with a sage aroma when crushed. Let's hope this plant is not another Russian olive or autumn olive; however, assurances from a reliable commercial nursery indicated that the plant is non-spreading.

July - August 1995

LAWN CARE

A recent advertising flyer mailed from a lawn care company headlined the following dire warning, "Now is the time to apply weed control to henbit, chickweed and wild onions before they set seed and become resistant to chemical controls, starting as low as \$24.95 per 1,000 sq. ft." That's about \$50 for an average size small lawn (doesn't say how many applications); seems like a fairly steep price to pay for eliminating these innocent, harmless little invaders which only add variety to an otherwise sterile lawn.

RESEARCHER FINDS RARE PLANT OUTSIDE OFFICE

A recent Montana State University-Billings bulletin carried an article concerning a new discovery of quaking aspen (*Populus tremuloides*) tree sexual characteristics. In 1992, Dr. Tashneem Khaleel, professor of Biological Sciences-Botany found a group of bisexual aspen behind the science building, where the trees had been transplanted from the Beartooth Mountains. Dr. Khaleel explained that quaking aspen have always been known to be either male or female, but this finding was the first where trees have bisexual flowers, containing both stamens and ovaries. She is conducting research into this phenomena.

The following article provided by Nels Holmberg:

COVER STORY

A very striking painting of *Delphinium nelsonii*, the mountain delphinium, made the cover of the June 1995 issue of *Scientific American*. Although not a Missouri native, the cover picture heralded a fascinating article on plant biology, right? Wrong! In a 6 page article, "Kin Recognition," the delphinium shared the next to the last paragraph with pokeweed and English plantain.

An illustration showing many of the species discussed in the article actually had more information. "Mountain delphiniums distinguish relatives from nonrelatives based on pollen. The plants use kin recognition to avoid breeding with close relatives or with plants that are extremely different genetically."

The article focused on the evolution of social behavior and contained interesting information on the behavior of several species. Bank swallows, paper wasps, sea squirts, house mice and spadefoot toads were included. The editors must have opted for the kinder, gentler cover of delphiniums over an illustration of Arizona tiger salamanders cannibalizing each other.

Upcoming Botanical Events

The forty-second annual Systematics Symposium will be held at the Missouri Botanical Garden on October 6-7, 1995. MONPS is invited to display our wares and discuss activities with those interested from more than 400 professionals and students who are expected to register. We will need assistance to staff a table throughout the day on Saturday, 8:30 AM - 5:00 PM. Mark your calendar for now - more info in next issue of this newsletter.

JHH

Petal Pusher

Missouri Native Plant Society – Publication Order Form

MONPS is pleased to offer a selection of books to members at discounted prices. Check the books below you desire to order. Each order form must be accompanied by a check for total cost of books, including shipping and handling and Missouri tax.

| TITLE & AUTHOR | | MONPS PRICE |
|---|-------|-------------|
| _____ Edible Wild Plants of the Prairie – Kindscher | (pb) | \$11.25 |
| _____ Medicinal Wild Plants of the Prairie — Kindscher | (pb) | \$11.25 |
| _____ Walking with Wildflowers — Haller | (pb) | \$22.50 |
| _____ Konza Prairie — Reichman | (pb) | \$11.25 |
| _____ Roadside Kansas —Buchanan & McCauley | (pb) | \$8.50 |
| _____ Flora of the Great Plains —GP Flora Committee | (hb) | \$47.00 |
| _____ Field Guide to the Common Weeds of Kansas — Barkley | (pb) | \$6.90 |
| _____ Poisonous Plants of the Central U.S. —Stephens | (pb) | \$11.25 |
| _____ Woody Plants of the North Central Plains — Stephens | (hb) | \$25.50 |
| _____ Wildflowers & Weeds of Kansas — Bare | (hb) | \$25.50 |
| _____ Roadside Wildflowers of the S. Great Plains — Freeman & Schofield | (pb) | \$15.50 |
| _____ Trees, Shrubs, & Woody Vines of Kansas — Stephens | (pb) | \$8.50 |
| _____ Gardening in the Heartland — Snyder | (hb) | \$17.00 |
| _____ Guide to Kansas Mushrooms — Horn, et al | (pb) | \$17.00 |
| _____ Watching Kansas Wildlife — Gress & Potts | (hb?) | \$8.50 |
| _____ Growing Vegetables in the Great Plains | (pb) | \$11.25 |
| _____ Kansas Wetlands — Collins | (hb) | \$21.50 |
| _____ Wildflowers of Mississippi — Timme | (pb) | \$19.50 |
| _____ Kansas Prairie Wildflowers — Owensby | (pb) | \$11.95 |
| _____ Wildflowers of Nebraska & the Southern Great Plains — Farrar | (pb) | \$15.50 |
| _____ Colorado Flora: Eastern Slope — Weber | (pb) | \$25.00 |
| _____ Colorado Flora: Western Slope —Weber | (pb) | \$25.00 |



Make checks payable to: T.M. Sperry Herbarium
 Send order form to: Dr. Stephen L. Timme
 T.M. Sperry Herbarium – Biology
 Pittsburg State University
 Pittsburg, KS 66762-7552

Check the above books you wish to purchase and complete below:

| | |
|-----------------------|----------|
| Subtotal | \$ _____ |
| Missouri Tax (4.225%) | \$ _____ |
| Shipping & Handling | \$ _____ |
| TOTAL | \$ _____ |

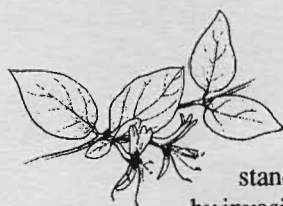
(\$3.00 first book, each additional book = \$0.50)

Name (please print) _____
 Address _____
 City _____ State _____ Zip _____
 Phone (_____) _____

**ORDER SENT TO
 PUBLISHER AROUND
 15th OF EACH MONTH**

Help Counter Threat to Biodiversity by Exotic Plants

by Jack H. Harris
 Environment Committee



The Native Plant Societies of the U. S. have been invited to participate in a campaign to build public understanding of the threat to biodiversity posed by invasive alien plant species. A new position of Government Liaison is being established by the Exotic Pest Plant Councils (EPPC) of Florida, Tennessee, and the Pacific

Northwest. This position is to be filled by Faith T. Campbell who has distributed a survey letter seeking assistance and information from those who would like to help in the campaign.

The Missouri Native Plant Society is responding to the request for assistance in reviewing, and perhaps adding to, the continental list; and to keep informed about the status of the issue. Members who would like to personally learn more about the campaign may contact Faith Campbell at 8208 Dabney Avenue, Springfield, VA, 22152.

The *Petal Pusher* will keep MONPS members informed of activities as pertinent information is received.

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INFORMATION ON JOINING MISSOURI NATIVE PLANT SOCIETY

SOCIETY DUES

(Chapter dues additional)
Student\$5.00
Regular\$9.00
Contributing\$20.00
Life\$200.00

CHAPTER DUES

Columbia\$6.00
Jefferson City\$5.00
Kansas City\$5.00
Kirksville00
Osage Plains00
Ozark Showy00
St. Louis\$5.00
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MAIL DUES TO: Jack H. Harris, Treasurer

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