

MISSOURI NATIVE PLANT SOCIETY

MAY

- 1** Sat., 10:30 a.m.
Wayne County

Field Trip to Markham Springs in search for Running Buffalo Clover. Led by Ethel Hickey and Phil Weston (USFS). Meet at first parking lot at Markham Springs. To carpool from St. Louis, meet at 8 a.m., So. County Shopping Center, NW corner of parking lot. Bring lunch and water & be prepared to stay all day.

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- 1-2** Sat.-Sun., 10 a.m.
Kansas City

Annual Plant Sale at Powell Gardens Mayfest. We will sell plants from Merv Wallace's nursery as part of the festival. We need volunteers to man our booth. For more information, contact Mike Laird (913) 677-2830.

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- 2** Sun., 1 p.m.
St. Louis

Field Trip to Monsanto's Chesterfield Village Site led by Mary Smidt. This is the first of three trips to this site to do a plant inventory. Exit Hwy 40, north on Olive St. Rd. to first stoplight and go left (west) on Chesterfield Parkway North about 1/2 mile to Monsanto World Headquarters gate.
PLEASE NOTE CHANGE OF DAY AND TIME!

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- 4** Tue., 7:30 p.m.
Jefferson City

Landscaping with Natives program by Ray Rothenberger, Horticultural Specialist, UMC. Monthly meeting at the Cole County Extension Office.

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- 4** Tue., 6:30 p.m.
St. Louis

Wildflower walk led by Jack & Pat Harris. A short evening walk for those too busy on weekends. We will visit an area within the I-270 beltway, tentatively Emmenegger Park. Call Jack or Pat (314) 894-9021 for meeting details.

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- 8** Sat., 9:30 a.m.
St. Louis

Field Trip to Engelmann Woods led by Jim Bogler. Meet at W. Co. Shopping Center, Penney's lower lot at 9:30 or at Engelmann Woods at 10 a.m.

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- 8-9** Sat.-Sun.
Kansas City

Garlic Mustard roundup at Trice-Dedman Woods. Help the Nature Conservancy control this alien invader. For more information, contact Mike Laird (913) 677-2830.

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- 15** Sat.
Jefferson City

Field Trip to Bald Hill Prairie, a private native prairie on the outskirts of Jefferson City. Contact Becky Washburn (314) 295-4220 for time and place.

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- 15** Sat., 9:30 a.m.
Kansas City

Field Trip to prairies of Miami County, Kansas. Meet at the Headquarters Bldg. at Hillsdale Lake. From Olathe, take Hwy 169 south 13 miles to Hillsdale exit; go west about 2 miles. Bring lunch and water. Contact Mike Laird (913) 677-2830 for further information.

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- 15** Sat., 9 a.m.
St. Louis

Field Trip to Faust Property, led by Jim Bogler. This area contains some long undisturbed areas. We will be doing a plant inventory. Meet at Faust County Park parking lot.

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- 15 Sat. Springfield **Naturescaping Symposium**, Springfield Conservation Nature Center. For more info, contact Debbie Baker. Registration ends May 12, 1993.
- 21-22 Fri.-Sat.. Enid, OK **16th Annual Wildflower Workshop**. For information and registration, contact Wildflower Workshop, 1102 Rosebrier Dr., Guthrie, OK 73044, (405) 282-4167.
- 21-23 Fri.-Sun. Ozark, IL **Illinois Native Plant Society Annual Meeting**, St. Noel Center, Ozark, IL. Explore the amazing diversity of limestone barrens to lush creek canyons. For more info contact Sharon Cline (618) 942-4829.
- 22 Sat., 8:30 a.m. Kansas City **Field Trip to Southern Iowa** to see the White Ladies Slipper Orchid. We will see this and other spring woodland plants. Bring lunch and water and be prepared to stay all day. For carpooling info, call Mike Laird (913) 677-2830.
- 22 Sat., 9:30 a.m. St. Louis **Field Trip to Busch Wildlife Area chert glade** led by Jim Bogler. Meet at W. Co. Shopping Center, Penney's lower lot at 9:30 or Busch WA HQ at 10:30 a.m.
- 23 Sun., 9:30 a.m. St. Louis **Field Trip** led by Jack & Pat Harris. Tentatively planned for Weldon Spring Wildlife Conservation Area. Bring lunch and water and be prepared to stay all day. Call Jack or Pat, 894-9021 for meeting details.
- 23 Sun., 2 p.m. Springfield **A Taste of the Wild** program by Peggy Smith, Naturalist from the Springfield Nature Center. The exciting smell, sight and taste of Missouri's wild edibles will be available for you to sample Call Nancy Barnum (417) 833-2080 for location.
3 p.m. **Native Food Pot Luck Dinner**. Bring your favorite native food dish along with the recipe to share.
- 26 Wed., 7:30 p.m. St. Louis **New Methods of Propagating Native Woody Plants**, program by Dan Kuczmariski, Head Grower, Forrest Keeling Nursery. Monthly meeting at the Ridgway Center, Missouri Botanical Garden.

JUNE

- 5 Sat., 8:00 a.m. Kansas City **Field Trip to prairies south of Sedalia**. Many prairie wildflowers should be near their peak. Meet at Hypermart parking lot. Bring lunch and water. Contact Mike Laird (913) 677-2830 for more information.
- 5 Sat., 8:30 a.m. St. Louis **Field Trip near Taum Sauk Mountain** to look for Mead's Milkweed. Led by George Yatskiyevych. It will require some walking on the Ozark Trail to get to the area. Bring lunch and water and be prepared to stay all day. Meet at South County Shopping Center, NW corner of parking lot.
- 10 **DUE DATE FOR MATERIAL FOR JULY-AUGUST *Petal Pusher***. Please send meetings 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.
- 12 Sat., 9 a.m. St. Louis **Field Trip to Amidon State Forest** to explore its forest, glade and shut-ins on the Castor River. Led by Linda Ellis. Bring lunch and water and be prepared to stay all day. Meet at South County Shopping Center, NW corner of parking lot. Or meet at 10:45 a.m. at Amidon State Forest parking lot.
- 18-20 Fri.-Sun. **ANNUAL MEETING** See article on page 5.
- 19 Sat., 8 a.m.-4 p.m. Columbia **CRP and Quail Farm Tour**. The Dick & Betty Weibel Farm. I-70 Exit 133, go N. on Rt. Z. to Judy School Rd., go East 1 3/4 mile. For more info (314) 443-2748.

19 & 20 Sat. & Sun.

Butterfly Counts at areas across the state. Spend a day in wild MO prairies, glades and woodlands and learn to identify butterfly species. For more info contact Rosalyn Johnson (314) 751-4115 ext647

21-25 Mon.-Fri.
Kansas City

The Management of Riparian Forests. This workshop will address riparian forest management in the midwestern setting of predominantly agriculturally based watersheds. It will include technical sessions and field tours. For more information contact Terry Robison or Frank Hershey (314) 751-4115.

22-25 Tue.-Fri.
Orono, Maine

Natural Areas Conference. The theme is Conservation in Working Landscapes For information contact: 1993 Natural Areas Conference. Main State Planning Office. 184 State Street, Station 38, Augusta, Maine 04333-0038.

23 Wed., 7:30 p.m.
St. Louis

Monthly meeting at the Ridgway Center, Missouri Botanical Garden. Speaker to be announced.

24 Thur., 6 p.m.
Springfield

Poisonous Plants found in Missouri and around the world, program by Dr. Wallace Weber, of SW MO State University, monthly meeting at Springfield Nature Center. A walk led by Dr. Weber, will start at 6 p.m. before the 7 p.m. meeting.

26 Sat., 9 a.m.
St. Louis

Second Field Trip to Monsanto's Chesterfield Village site. See May 2 for details.

BROWSING THE BRYOPHYTES

MONPS FIELD TRIP—17 APRIL 1993

by Jack H. Harris

A record turnout accepted the invitation of Steve Timme to peek in and sample the unusual world of BRYOPHYTES at the spring MONPS Friday evening dinner, followed by a presentation, and then on to a Saturday field trip on 17 April.

There were twenty-seven on hand for the delicious, all-you-can-eat buffet at Rosener's Restaurant in Flat River. Steve Timme clearly succeeded in meeting the challenge of presenting a **Short Introduction to Bryophytes** to a crowd consisting mostly (but not all) of bryophyte neophytes immediately following the very robust meal. The lively and vigorous interaction with the group precluded any somnambular casualties throughout the program.

A distinguished group of 35 people joined Steve the next morning to visit Pickle Springs Natural History Area and put into practice all of the skills (?) that the crowd had learned (?) the evening before. We were reminded that the area has one of the most diverse communities of Bryophytes in the state. And after a few demonstrations of the basics, Steve began quizzing the curious and coaxing answers on species identification. Nineteen mosses and 11 liverworts were identified on the 2.5 mile, 3.5 hour walk. It should go without saying who actually performed the identifications (see accompanying list). Four species were tentatively identified that were not on the current lists and may be new records for the area.

Following the Pickle Springs visit, a smaller group accompanied Steve to the nearby Hawn State Park. After an additional one mile walk in about two hours, five mosses not previously seen was added to the days list. Nine mosses seen at Pickle Springs were also seen at Hawn (see list).

Now if only we could remember all we learned...

LIVERWORTS

- Calygeia sullivanii, P
- Conocephalum conicum, P
- Frullania inflata, P
- Jamesoniella autumnalis, P
- Pallavicinia lyellii, P
- Plagiochila aspienoides, P
- Porella pinnata, P, N
- Radula obconica, P
- Reboulia hemisphaerica, P, N
- Scapania nemorosa, B
- Trichocolea tomentella, P



MOSSES

- Anomodon rostratus, P
- Atrichum angustatum, B
- Aulacomnium heterostichum, H
- Bartramia pomiformis, B
- Bryoandersonia illecebra, B
- Climacium americanum, H
- Dicranum condensatum, H
- Dicranum scoparium, B
- Ditrichum pallidum, P
- Entodon seductrix, P
- Fontinalis sp., P
- Grimmia laevigata, P
- Hedwigia ciliata, B
- Hypnum sp., B, N
- Leucobryum glaucum, B
- Mnium cuspidatum, P
- Mnium punctatum, H
- Polytrichum commune, P
- Polytrichum juniperinum, B
- Sphagnum bartlettianum, P
- Sphagnum compactum, B
- Syrrophodon texanus, P
- Tetraphis pellucida, P, N
- Thuidium delicatulum, B



H = Hawn State Park; P = Pickle Springs Natural History Area;
B = Both areas.
N = New to the plant lists of Redfearn (1987) and Vitt (1967)

SUPPORT SB-383

Stop Wildflower Theft from Missouri's Roadsides

by Jack H. Harris

Senator Mike Lybyer (Huggins) has introduced a bill in the Missouri State Legislature that would make it a misdemeanor to dig or remove plants or plant parts (i.e., roots, bulbs, tubers, and rhizomes) from real property of the State Highway and Transportation Department without permission.

The purpose of the bill is to stop the practice of **commercial digging of wildflowers** from Missouri's roadsides. This practice has resulted in the annual harvest of thousands of native wildflowers being removed from public property and sold for personal gain. The native stock of some of our most showy wildflowers has been seriously depleted or even wiped out in some areas. The bill contains provisions for legitimate scientific, educational and weed control purposes.

Please write (or call) your State Senator and your State Representative (address: State Capitol, Jefferson City, MO, 65101) today. The session ends on the 15th of May. Ask them to give active support to the passage of **SB-383/as amended** out of the legislature this year. Each year of delay means another year of theft and serious depletion of our wildflower heritage from public property. Text follows.

SENATE BILL NO. 383

as amended 3/25/1993

Relating to the theft of certain plants, with penalty provisions.

Be it enacted by the General Assembly of the State of Missouri, as follows:

Section 1. 1. As used in sections 1 to 3 of this act, the following terms mean:

- (1) "Commission," the state highways and transportation Commission;
- (2) "Plants," trees, shrubs, vines, wildflowers, grasses, and ferns; and
- 3) "Plant parts" or "parts of plants," roots, bulbs, tubers, and rhizomes.

2. Except as otherwise provided in this section, no person shall dig or remove any plants or plant parts from any real property of the commission, or the right-of-way of any state or county highway or roadway without permission of the commission or governmental entity responsible for the administration of the property or right-of-way, unless such person is engaged in the work of constructing, repairing or maintaining the property, highway or roadway under the authority and direction of the commission or governmental entity. Violation of this section is a class B misdemeanor. Each plant removed shall constitute a separate offense.

3. Subsection 2 of this section shall not apply to the control or eradication of diseased vegetation or noxious weeds by authorized personnel.

4. Provided that such plants or plant parts are not offered for sale, subsection 2 of this section shall not apply to the collection of seeds, fruits, nuts, berries, edible wild

greens, or flowering parts of plants, or the occasional collection of plants for the purposes of scientific research or education.

Section 2. No person, except authorized personnel, shall possess for sale, collect, or sell any plant parts from highways, county roadways, or rights-of-way. Violation of this section is a class A misdemeanor.

Section 3. All law enforcement officials and peace officers of this state and of all political subdivisions, including department of conservation agents and agents of the department of natural resources, shall enforce the provisions of sections 1 to 3 of this act within their respective geographic jurisdictions.

PROPOSED CHANGES IN MEMBERSHIP STRUCTURE UPDATE

by Jack H Harris

In the January-February issue of this newsletter, we described the proposed changes to the membership structure that had been made at the Board of Director's (BoD) meeting of 4 December 1992. At the BoD meeting of 18 April 1993 the debate of this issue was continued.

There was vigorous discussion about the acceptability of standardized dues for all Chapters and the various advantages and disadvantages of such a system. I presented a **hypothetical** geographical area assignment map of the state counties and passed it around to the attending board members. Each Chapter was assigned the counties in which the Chapter organization was headquartered and all of those counties surrounding it to the extent possible, depending on how close the neighboring Chapter was located. These assignments were colored in so that the groupings would stand out and be visibly emphasized. The assignments of counties to Chapters were further organized so that any member (under the proposed system) would be obliged to drive the shortest distance possible to attend a Chapter function. This graphic clarified certain concepts embodied in the proposal for some board members who then raised questions that had not been posed before, e.g., should area assignments be based on trying to balance membership only? Or should some combination of membership and geographic area be involved? Also what would be the effect on the budget of a current Chapter if several members were assigned to a different Chapter? Or on the budget of a Chapter that now has few members but would gain many more, etc.?

In addition it was noted that the Society By-laws would probably have to be upgraded to include guidance how to handle Society and Chapter funds, and actions necessary if a Chapter became inactive and dissolved over time.

The BoD decided that a copy of the colored map of hypothetical county assignments to Chapters should be made and mailed to each Chapter representative and President. Each Chapter should review and discuss the various issues that are of concern to them and bring a recommendation to the next BoD meeting in June. No further action was taken on this matter by the BoD. Society members are encouraged to discuss these issues with their Chapter and Society officers.

1993 ANNUAL MEETING

Join fellow native plant enthusiasts this weekend. Saturday morning we will visit Earthquake Hollow which offers the best example of a chert conglomerate cliff in MO, with a rich wildflower and fern display on dry and mesic sites. That afternoon we will tour Prairie Garden Trust that includes the demonstration garden, tallgrass prairie, savanna, woodland, lily pond and wetlands.

ITINERARY

- June 18, Fri. 7 p.m. **MO Native Wildflower Seed Exchange.** (See guidelines below.) MONPS members. Domke Farm "Porch" Prairie Garden Trust, New Bloomfield, MO. (See map)
Maps and species lists will be available for places to visit later on your own.
- June 19, Sat. 8:30 a.m. **Field Trip to Earthquake Hollow.** Meet at Domke Farm to carpool.
12 p.m. **Lunch** hosted by MONPS Jeff City Chapter at Domke Farm "Porch" \$3.25.
Must call Karen Yates (417) 752-3758 so we will have an accurate lunch count.
- 1 p.m. **Prairie Garden Trust guided tour.**
6 p.m. **Dinner** at Tonanzio's Restaurant. \$9.00 tax & tip included. Choice of chicken breast or a cheese pasta. (Three miles W/NW of New Bloomfield on Hwy J) Guthrie, MO.
- 7:30 p.m. **MONPS Annual Meeting** at Tonanzio's.
June 20, Sun. 9 a.m. **MONPS Quarterly Meeting,** Tonanzio's Restaurant. Coffee, tea and donuts available.

Lodging:

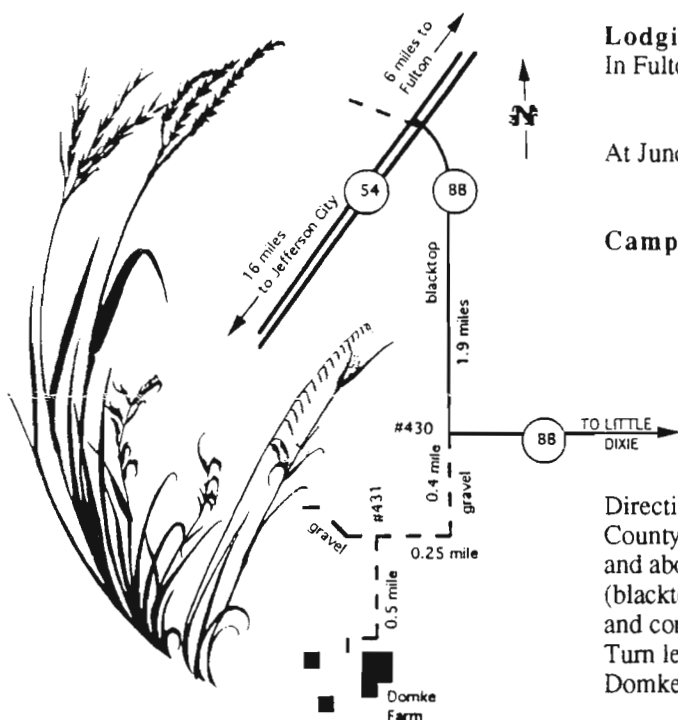
- In Fulton—Loganberry Inn (Bed and Breakfast), 310 W. 7th. (314) 642-9229
—Traveller Motel, 600 S. Bus. 54, (314) 642-3332
—Budget Host Westwoods, US 54 & Hwy F, (314) 642-5991
At Junction I-70 and US 54 (6 miles North of Fulton)
—Super 8, 1-800-800-8000 or (314) 642-2888
—Days Inn, 1-800-325-2525 or (314) 642-0050

Camping:

- Cedar Creek Ranger District—Mark Twain Forest (west & south of Fulton). Two developed campsites near Guthrie and Carrington. Also primitive camping. (314) 564-3476 for map. **NO RESERVATIONS**
—Prairie Garden Trust, New Bloomfield. Joan Domke has generously offered to accommodate campers at her farm. **RESERVATIONS REQUIRED** by June 1, 1993. Call who Joan at (314) 295-4220.

Directions to DOMKE FARM:

County road "BB" intersection with MO Hwy 54 is 6 miles south of Fulton and about 16 miles north of Jefferson City. Turn east/south on Callaway (blacktop) County Rd. "BB". Go 1.9 miles to gravel road #430. Keep right and continue south for 0.4 mile. Follow road to right (west) for 0.25 mile. Turn left (south) at gravel road #431 and Domke mailbox. Go 0.5 mile to Domke Farm.



SEED EXCHANGE – REVISED

by Ann Wakeman

With thanks for suggestions, the following is a revision of the article printed in Volume 8 number 1. Ever wish you could have the chance to exchange seeds with other members of the Missouri Native Plant Society? Starting with the June Annual and quarterly Board Meeting thereafter, there will be an opportunity to do just that. The exchange will be open to anyone attending the meetings.

These are the general guidelines for this exchange:

1. Seeds may be collected from any Missouri native plant, shrub or tree. Please, no collecting in our State Parks or other public lands. Also avoid endangered species.
2. Seeds should be fairly clean of plant debris, dirt or other foreign material.
3. Seeds should be packaged in coin envelopes available at most office supply stores. Label each packet with the name of the plant, date and county where collected,

name and address of the collector (if the exchangers would like to correspond with questions, successes, techniques, etc.).

4. Quantities of seeds in general could run **approximately** 25-30 seeds for most, to several for large seeds.
5. Exchanges will be packet for packet. Extra packets may be purchased for a nominal fee which will go to the Missouri Native Plant Society. Any extra packets will be properly stored and brought back to the next Board Meeting.
6. Because this is an **informal** exchange, the seeds exchanged have no germination guarantee. Hopefully a dialogue will be started between exchangers so individuals will learn more about the seeds they collect.

For further details or any suggestions, call or write me:

Ann Wakeman, 5798 Windy Meadows Lane,
Fulton, MO 65251 (314) 642-6927

NEW OFFICERS AND BOARD MEMBERS FOR 1993-1995

Since no additional nominees were received, Daniel Rice, Chairman of the Ballot Committee announced that the slate of officers selected by the nominating committee and published in the March-April *Petal Pusher* will stand for 1993-1995. Officers will be: President, Steve Timme; Vice-President, Jack Harris; Secretary, Ann Wakeman; Treasurer, Jody Eberly. Two new board members are Richard Datema and Larry Morrison.

QUANTIFYING MISSOURI'S FLORA

On March 27, Doug Ladd, director of Science and Stewardship, Missouri Chapter of The Nature Conservancy, gave a seminar to MONPS members on a method of evaluating natural areas using Missouri native plant flora. Native plants are given a "conservatism coefficient," from 1 to 10, depending on each area surveyed. High coefficients indicate plants which are very sensitive to habitat changes, while low coefficients describe plants which thrive in disturbed areas. Examples of conservatism coefficients are: *Ambrosia trifida*—0, *Symphoricarpos orbiculatus*—1, *Apocynum sibiricum*—2, *Claytonia virginica*—3, *Cirsium altissimum*—4, *Andropogon gerardii*—5, *Bacopa rotundifolia*—6, *Echinacea pallida*—7, *Cypripedium calceolus*—8, *Cirsium muticum*—9 and *Bouteloua hirsuta*—10. Conservation coefficients are totaled (each species counted only once regardless of numbers present), divided by the total number of species and the resulting average conservatism coefficient multiplied by square root of total number of species to arrive at the Natural Area Index; high indexes indicate more natural areas, while low ratings describe more disturbed areas. The method has been tested over different habitats and has proven very effective in rating natural areas.

CHAPTER NEWS

Columbia—Tables were set up at Day for Wildlife, March 29 and Earth Day Festival, April 24, to sell books, plants and T-shirts and a table will be arranged for Rocheport Spring Garden Festival, weekend of May 1. Programs have been held on fungus, medicinal plants and composting.

Jefferson City—A seed propagation workshop was sponsored in February. Members are consulting with staff of the new Runge Conservation Nature Center on plantings for the backyard naturescaping trail. Programs have been held on landscaping with wildflowers, native plant scents and their uses, and Missouri history of forest management.

Kansas City—Fourteen field trips have been planned through October, starting with a winter tree identification program at Martha Lafitte Thompson Nature Center in

March. A unique feature will be visits to the same prairie three times to observe changes as seasons progress.

New officers for 1993:

President: Mike Laird
Vice-President: Bob Hansen
Secretary: Dan Rice
Treasurer: Cathy Johns
Chapter Rep: Dan Rice

Kirksville—Chariton Valley Audubon Society has merged with the Kirksville MONPS chapter. Meetings will be sponsored alternately by each group and members can join one or both groups, or maintain their original memberships. Past programs have included spring wildflowers and ornithology, with field trips made to Atlanta Wildlife Area and Rock Bridge State Park.

St. Louis—Several excellent meetings have been held, including fragrant woody plants, savanna/glade restoration, and plant endangerment and conservation. Numerous field trips have been planned, starting in April. Three slide shows featuring Missouri wildflowers of spring, summer and fall are available through Missouri Botanical Garden on request; each show comes complete with a tray of slides and narrative script with interesting items about each plant.

Springfield—Programs have included nature's medicinals, Amazon rain forest and morels. On March 16, a 30 minute MONPS program was shown on cable TV. A bladderpod workday was held March 27. The Corps of Engineers has invited MONPS to "adopt" a portion of Lake Taneycomo.

NATURESCAPING - 93

by Jack H. Harris

On a blustery Saturday this past February 12, over 230 crowded into the Powder Valley Nature Center to hear Dr. J. C. Raulston (Professor of Horticulture Science, N. Carolina State University) give a rousing keynote speech on the culture of landscaping and why we should do it "THE NATURAL WAY." The interest and attention of the crowd was thus gathered, honed and headed off in the right direction to be sustained by the speakers and experts in the remaining 6 subject sessions. Several table and booth displays provided complementary focal points for information dissemination, and discussion for the eager guests during breaks and the lunch period. The symposium was sponsored and produced by 13 local conservation, environment, nursery and landscape organizations (including MONPS) and hosted by the Missouri Department of Conservation. The degree of public interest displayed at the Symposium holds out the possibility that it may become an annual event. The news of the success of this symposium has apparently reached the far quarters of the state. We hear that there is a NATURE-SCAPING SYMPOSIUM scheduled for May 15, 1993 in Springfield, MO. Contact Debbie Baker at the Springfield Conservation Nature Center for more information.

EXOTIC PLANT SPECIES WORKSHOP

by Jack H. Harris

"Once exotics become naturalized, they often change species composition, alter structure, and reduce natural diversity of native plant and animal communities. Moreover, if an exotic becomes naturalized and spreads throughout the system, getting it out of that system is like trying to unscramble an egg.".....Francis M. Harty*

The Missouri Department of Conservation (MDC) and the Natural Areas Association (NAA) sponsored a workshop on MANAGING PROBLEM EXOTIC PLANT SPECIES IN THE MIDWEST, October 6-7, 1992 in Columbia, MO. Attendance was 150 professional land management and academic delegates. A few private organizations and individuals, mostly from Missouri, but with representatives from Iowa, Kansas and Illinois also participated. Widespread interest in the subject was evidenced by the spirited interaction between the speakers and the audience throughout the transactions.

Presentation subjects ranged from *Why Worry About Weeds?* (by our own George Yatskievych), *Exotic Plants—Good Guys or Bad Guys?* to *Noxious Weed Legislation*. Also addressed was "how to" presentations on chemical/biological control methods, and descriptions of practical management problems related to a variety of specific plants such as Purple Loosestrife (*Lythrum salicaria*), Japanese Honeysuckle (*Lonicera japonica*), Service Lespedeza (*Lespedeza cuneata*), and Johnson Grass (*Sorghum halepense*), among others. The two day session culminated in two Breakout Sessions and a wrap-up with a general question/ discussion panel of the experts and the workshop members. All in all, 22 papers and sessions were held under the close management and scheduling of Workshop Coordinators/Moderators Tim Smith and George Hartman (both of MDC).

A typical bit of information from the session reflects our current status. In Missouri approximately 25 percent of existing flora are of exotic parentage. In Illinois the count is up to 29 percent. In other words if you had walked through the mid-west over 200 years ago, about one in four to as many as one in three of the **plant species** we now see about us everyday would not have been present then. And of course a few others would have been in their place, i.e., those now extirpated. Also consider the pressure this population explosion of aggressive exotic plants is having on the little remaining habitat of our existing native plant species.

One generally agreed upon conclusion emphasized by those who have tried to deal with established exotic plants: using all our best technology and constant intensive teamwork we may be able to control or suppress these species, but **we can never eliminate them from the North American continent!**

Missouri Native Plant Society (MONPS) members and friends who are interested in the plight of our native plant species and how their existence is threatened by exotic species should communicate this concern to the Missouri Department of Conservation (MDC), the Missouri

Department of Natural Resources (DNR), the Missouri Department of Highways and Transportation, the Missouri Department of Agriculture, the US Forest Service, the US Fish & Wildlife Service, and other public officials. Encourage them to continue to press for public policies and procedures to control and suppress exotic species. Some public agencies are still using taxpayer dollars to plant and distribute ever more exotic species as a matter of outdated procedures and regulations. Also express your appreciation to those you find are taking steps to deal with this issue in a responsible manner. Please report significant exotic species planting activities to the MONPS Environment & Education Committee. More information on this subject may be obtained from MDC, NAA, or MONPS.

**How Illinois Kicked The Exotic Habit* – by Francis M. Harty, Division of Natural Heritage, Illinois Department of Conservation. Paper presented at Conference on Biological Pollution: The Control and Impact of Invasive Species. Sponsored by the Indiana Academy of Science, Oct. 25-26, 1991, Indianapolis, Indiana.

Related publication of interest:

Natural Areas Association Compendium on Exotic Species, a collection of 43 articles from the *Natural Areas Journal*. Order from: The Natural Areas Association, 108 Fox St., Mukwonago, WI 53149 (414) 363-5500. \$18.00 for members, \$20.00 for non-members + \$4.00 handling, Mastercard/Visa.

REFUGES 2003

A PLAN FOR THE FUTURE

The US F&WS National Wildlife Refuge System

by Jack H. Harris

The US Fish & Wildlife Service (USFWS) now manages about 4% of the total US land base and 14% of the lands owned and/or managed by the Federal Government. In other words 91 million acres of land and water. The USFWS has issued a Draft Management Plan and Environmental Impact Statement which is to become the guide for managing the Refuge System over the next decade. The *EXECUTIVE SUMMARY* of the plan is contained in 15 pages and summarizes the seven alternatives. One of the alternatives will be adopted – based partly on public comment. A copy of the Summary may be obtained by writing to: Chief, Division of Refuges, US Fish and Wildlife Service, 4401 N. Fairfax Drive, Room 670, Arlington, VA 22203. The seven alternatives range from maximizing hunting, fishing and trapping, to prohibiting all of these. One alternative would emphasize interpretation of biodiversity and ecosystem management. Several refuges are located in and near to Missouri, and MONPS members and friends may wish to comment on which alternative should be adopted. Public hearings are scheduled for various parts of the country – none in or near Missouri at the time of this writing. The comment period ends **June 15, 1993**.

NEW ADDRESS FOR MONPS

We have a new address! Our P.O. Box and Bulk Mail Permit have been moved to the St. Louis area. It is now: P.O. Box 20073, St. Louis, MO 63144-0073.

BOARD MEETING HIGHLIGHTS

APRIL 18, 1993

President Karen Haller and 14 board members were present for the meeting, conducted at Rosener's Motor Lodge, Flat River.

Treasurer's Report: Rad Widmer indicated a balance of \$10,741.58.

Committee Reports

Archives: Jim Bogler requested plant lists from field trips. A printed form will be developed in the future.

Editorial: George Yatskievych reported that since he and Doug Ladd were now editors of *Missouriensis*, they could no longer serve as members of the Editorial Committee. He recommended the following for committee members: David Castener, Sylvia Forbes, Donna Ford, Paul Redfearn and Joanna Turner. Motion to accept recommendations was moved, seconded and carried (MSC).

Missouriensis: George Yatskievych reported that some articles are in, but more material is needed.

Petal Pusher: Pat Harris reported chapter input on meetings, field trips & news articles is needed.

Environment and Education: Jack Harris reported on following 1) Missouri Senate Bill #383, making plant digging along highways illegal, has been discussed in committee and may be attached to a noxious weed bill much further along, for faster passage through the legislature. He will write letter indicating MONPS support for Bill #383, to be sent to appropriate legislators (MSC) and 2) He has written to Tony Roberts, Jefferson City, in charge of proclamations, to arrange for Missouri Native Plant Week, June 5-11, 1994 and is open for any suggestions concerning the proclamation.

Linda Ellis reported on changes in federal regulation which prevents digging and selling wild plants. Michigan Bulb Co. and Spring Hill Co. who were major offenders, were fined and no longer list native plants in their catalogs. Anyone with information or experience dealing with nurseries on this subject should write as soon as possible to: National Resources Defense Council, Office of Secretary, Federal Trade Commission, Room 159, Sixth St. and Pennsylvania Ave. NW, Washington DC 20580.

Linda Lathrop discussed highway construction at Branson. She is working with Highway Dept. to put native plant communities along the new roads and is collecting native plant seeds prior to construction. Linda Thomas is working to get trees transplanted from construction areas to Wilson's Creek Battlefield NP near Springfield.

Membership: Pat Grace recommended reducing T-shirt price, make new design, then order more. Price of "Natives Are Restless" shirts will be reduced to \$5.00 (MSC).

Publicity: Gilberg's Perennial Farms catalog has been carrying a MONPS ad free.

Old Business

Naturescaping Symposium: George Yatskievych reported it was a success, with 230 persons attending. MONPS now has two display boards for conferences.

Wildflower Badge Program: Jim Bogler reported that the committee would like input on latest version of the program and that graphics and layout will be available by the Fall Board Meeting. Kansas Wildflower Society will be acknowledged in the brochure as originator of the idea.

Internal Structure Proposal: Jack Harris will send coded maps with suggested regions to chapters, who should evaluate and bring comments to June Board Meeting, when Board will act on proposal.

Ballot Committee: new officer slate was presented by Daniel Rice: President-Steve Timme, VP-Jack Harris, Secretary-Ann Wakeman, Treasurer-Jody Eberly, Board Members-Richard Dateman and Larry Morrison. All were accepted by acclamation.

New Business

MONPS History: Sylvia Forbes volunteered to continue compiling history of MONPS.

Wildlife Conference: George Yatskievych reported that the 55th Regional Forest, Fish and Wildlife Conference, to be held December 1993 in St. Louis, had requested \$200-\$500 to help defray costs. It was voted not to fund the conference but decision whether to have a booth will be made at June Board Meeting (MSC).

WELCOME TO NEW MEMBERS

During the months of February and March, the following persons joined MONPS. Welcome to all of you. We hope to see you at some of our events.

Nancy Alderete, Lee's Summit
Ann Apprill, St. Louis
Carrie Bell, Hume
Ialeen Borrer, Jefferson City
Sherry Davis, Springfield
Larry Douglass, Florissant
Zella E. Ellshoff, Eagan, MN
Ellen Susanne Greenlee, St. Louis
Annabel M. Hoffman, Jefferson City
Ann Lapidés, Brentwood
Jeanne Lawing, Kansas City
Eric Liskey, Lee's Summit
Carol A. Lockhart, Brashear
Frances F. Meyer, Kirkwood
Paul Nelson, Bonnots Mill
Barbara G. Parrish, Shawnee, KS
Nikki Pettit, Buffalo
Angela Phillips, Brentwood
Rebecca M. Romine, Holts Summit
Sallie Smith, Kansas City

"What is a weed?—A plant whose virtues have not yet been discovered."

Ralph Waldo Emerson

ARTICLES OF INTEREST

LAST STAND IN THE BRONX

George Armstrong Custer, widely remembered for his Civil War exploits and untimely demise at the Little Big Horn in 1876, had led an 1874 expedition to explore the Black Hills in South Dakota. With Custer were several scientists, including a botanist, A. B. Donaldson. After the expedition, Donaldson sent about 80 of the plant specimens to Wabash College in Crawfordsville, Indiana. The plants remained at the college and as the years passed, became largely forgotten. When the college became unable to maintain its herbarium in 1987, the plant collections, including those from the Custer Expedition, were sent to the New York Botanical Gardens in the Bronx.

In June 1992, cultural assistant Veronica Masson was examining several old, fragile specimens, when suddenly the words "Custer Expedition, 1874", jumped out at her from one of the file headings. Carefully searching the items, she found 42 of Donaldson's specimens.

The New York Botanical Gardens plans to display the plants soon in categories with others of their species and identified as being from Custer's 1874 Black Hills Expedition.

(From a recent article in the Little Big Horn Associates Newsletter.)

PHYSICIAN DEBUNKS LIVERLEAF

Dr. Churchill, apparently a rare combination of botanist and physician, writes an excellent article on history and botanical properties of *Hepatica nobilis*, commonly known as liverleaf because the three-lobed leaves not only resemble liver lobes, but also are mottled with purple and bilious green like the human liver. However, Dr. Churchill then gives hepatica enthusiasts something to consider, by ending his article with the following statement "All of more than a hundred human livers I have seen had two lobes, not three".

(Adapted from article by Dr. John Churchill in Tennessee Native Plant Society Newsletter, February 1993.)

ANOTHER SUPER ORGANISM!

An item in the March 1993 Hawthorn Chapter Newsletter described a presentation to their group in March on large organisms by Dr. Johann Bruhn. Dr. Bruhn, who recently joined the staff of the University of Missouri as a Research Assistant in Plant Pathology, was one of the co-founders of the Michigan *Armillaria bulbosa* "humongous fungus" last year.

However, an article in the Jan 3, 1993 St. Louis Post-Dispatch indicates that the world's largest and heaviest organism has now been found. Three professors from the University of Colorado claim to have discovered a grove of 47,000 quaking aspen *Populus tremuloides* trees in Utah's Wasatch Mountains, all arising from the root of a single

tree. This underground growth is estimated at 106 acres and 13.2 million pounds, far surpassing the super-fungus which is only 38 acres and 200,000 pounds.

U.S. PLANTS THREATENED

The Center for Plant Conservation estimates that about 4,200 species of U.S. plants—roughly one-fifth of the country's entire native flora—are of conservation concern. Of these, close to 800 species may be within a decade of extinction.

(From Missouri Botanical Garden Bulletin, Jan-Feb 1993)

SEED FROM TOMB PRODUCES BLOOM

TOKYO—A white flower has blossomed from a seed discovered among the ruins of 2,000-year-old tombs in western Japan after a decade of careful cultivation, newspapers reported recently.

The Yomiuri Shimbun said the seed was discovered in an underground storage room that formed part of an ancient tomb excavated near Yamaguchi City in 1981-1982.

Hiroshi Utsunomiya, a lecturer at Yamaguchi University, planted the seed 10 years ago and cultivated it until it grew to its current height of 7 feet.

It resembles a magnolia.

HELP NEEDED

During our joint meeting with the Eastern Native Plant Alliance in St. Louis, Sept 25-26 we will need volunteers to carpool our visitors from the meetings at the Missouri Botanical Garden to the field trips and back. Anyone interested, please call Linda Ellis (314) 353-1449.

ARCHIVES & FLORA FILE

Reminder: The archivist (see list of officers) solicits MONPS information for the Archives and Missouri floristic information (all types) for the MONPS Flora File. See articles in January-February 1993 issue of the *Petal Pusher*.

IMPORTANT NOTICE

Check your mailing label. Is the date on it is highlighted? If so, you are in danger of being dropped from membership in the Missouri Native Plant Society. This will be your last copy of the *Petal Pusher* and you will be missing out on the latest breaking news about plants, meetings, and outings.

If wish to continue your membership, please send your dues of \$9.00 + Chapter dues (if applicable) to

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(Chapter dues additional)

Student	\$5.00
Regular	\$9.00
Contributing	20.00
Life	\$200.00

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Jefferson City	\$5.00
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