## November

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</table>
| 3    | Tue., 7:00 PM  
Jefferson City | **Insects and the Plants They Like** presented by Father Jim Sullivan. Chapter meeting at Runge Nature Center. |
| 4-6  | Wed.–Fri.  
Chicago | **2nd Midwest Rare Plant Conference** and Task Force Meeting in cooperation with the Center for Plant Conservation at the Chicago Botanic Garden, Glencoe, IL. For information: Kayri Havens, Chicago Botanic Garden, 847-835-8378 or e-mail khavens@mes.net |
| 9    | Mon., 7:00 PM  
Columbia | **Chapter Meeting.** Tentative topic: Medicinal Plants. Held at Midwest Science Center, 4200 New Haven Rd. For more information, JoAnn Whitley, 573-442-6929. |
| 9    | Mon., 7:00 PM  
Clinton | **Chapter Meeting.** Held at the Henry County Courthouse. Program to be announced. For more information, David Lindell, 660-885-5556. |
| 18   | Wed., 7:00 PM  
Kansas City | **Chapter Meeting** at the Loose Park Garden Center, 52nd and Wornall. Program to be announced. For more information, Daniel Rice, 816-461-0206. |

## December

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
</table>
| 1    | **Due date for material for January–February**  
Petal Pusher. Please send meeting and field trip information and articles (typed double-spaced) to the editor by this date. If article has been word processed on a Macintosh, please send copy on disk to Pat Harris. Disk will be returned. Or send e-mail to: pharris@stnet.com |
| 5    | Sat., 9:00–5:00 PM  
Jefferson City | **MONPS State Board Meeting** at Runge Conservation Nature Center. See article on page 3 for more information. |
| 10   | Thur., 6:00 PM  
Jefferson City | **Dinner Meeting** held jointly with River Bluffs Audubon Society. The after dinner program will be on The Grasslands Initiative by Dennis Figg, Missouri Department of Conservation. For more information, contact Janet Racer 573-374-0372 or Carol Young, 573-896-9277. |
| 14   | Mon., 7:00 PM  
Clinton | **Chapter Meeting.** Held at the Henry County Courthouse. Program to be announced. For more information, David Lindell, 660-885-5556. |

## August 1999

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
</table>
| 1–7  | Sun.–Sat.  
St. Louis | **XVI International Botanical Congress**, America's Center. See page 6 for more information. |
# Hawthorn Chapter's Book Shelf

<table>
<thead>
<tr>
<th>Price</th>
<th>Title</th>
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<tbody>
<tr>
<td><strong>Missouri Department of Conservation Publications</strong></td>
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</tr>
<tr>
<td>$6.00</td>
<td>Water Plants for Missouri Ponds</td>
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<tr>
<td>$12.00</td>
<td>Missouri Conservation Department Atlas</td>
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<tr>
<td>$4.00</td>
<td>Missouri Orchids</td>
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<tr>
<td>$10.00</td>
<td>Missouri Wildflowers – New</td>
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<tr>
<td>$28.00</td>
<td>Grasses of Missouri – New</td>
</tr>
<tr>
<td>$2.00</td>
<td>Key to Missouri Trees in Winter</td>
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<tr>
<td>$4.00</td>
<td>Wild Edibles of Missouri</td>
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<tr>
<td>$3.00</td>
<td>Field Guide to Missouri Ferns</td>
</tr>
<tr>
<td>$7.00</td>
<td>Shrubs and Woody Vines of Missouri (soft cover)</td>
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<tr>
<td><strong>Books from Arkansas</strong></td>
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<tr>
<td>$7.00</td>
<td>Wildflowers of Ozarks</td>
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<td>$14.00</td>
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<tr>
<td>$12.00</td>
<td>Peterson Guide – Wildflowers NE/NC North America</td>
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<tr>
<td>$2.00</td>
<td>Winter Tree Finder</td>
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<td>$2.00</td>
<td>Winter Weed Finder</td>
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<td>$2.00</td>
<td>Flower Finder</td>
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<td>Berry Finder</td>
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<tr>
<td>$2.00</td>
<td>Fern Finder</td>
</tr>
<tr>
<td>$2.00</td>
<td>Storey Guide – Starting Seeds Indoors</td>
</tr>
<tr>
<td>$12.00</td>
<td>River Valley Companion &amp; Nature Guide (guide for the Missouri River Trail State Park)</td>
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<tr>
<td>$15.00</td>
<td>Ferns—To Know &amp; Grow</td>
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<tr>
<td>$13.00</td>
<td>Plant Fibers for Paper Making</td>
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<tr>
<td>$19.00</td>
<td>Tall Grass Prairie Wildflowers</td>
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<tr>
<td>$8.00</td>
<td>Catfish Ponds and Lily Pads</td>
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<tr>
<td>$13.00</td>
<td>Growing &amp; Propagating Wildflowers</td>
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<tr>
<td>$3.00</td>
<td>How to Manage Small Prairie Fires</td>
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</table>

Books are purchased by the Hawthorn Chapter for sale at events like Day with Wildlife, Earth Day, and Columbia's Heritage Festival. If you would like to purchase books from this list:

- Send a list of the book titles with the quantity for each.
- Add $3.00 for the first book and $1.00 for each additional book to cover shipping costs.
- Include your name, address and phone number, and shipping destination.
- Enclose a check for the amount of the books and the shipping.
- Make check out to: Hawthorn Chapter of the Native Plant Society.
- Do not send cash.
- Send your request to: Pam Haverland, 6901 Ginlet, Columbia, MO 65201

**Notice**—Some books may not currently be in stock, requests will be made from the Hawthorn Chapter's inventory (which is replenished about twice a year)—if there will be a delay in sending the book, you will be notified.

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# News Note

The Board of Directors of the Canadian Wildflower Society (CWS) plans to present to their membership (in late October 1998) a proposal to change the name of the Society to: **The North American Native Plant Society.** A proposed concomitant mission statement change will read: "The Society is dedicated to the study, conservation, cultivation, and restoration of North America's native flora from the Panama Canal to the North Pole." The CWS is the publisher of the highly acclaimed *Wildflower* magazine.

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*November – December 1998*  
*Petal Pusher*
December Board Meeting

JEFFERSON CITY, MO — DECEMBER 5, 1998

All Missouri Native Plant Society members and friends are invited to attend the winter MONPS state board meeting. If you want to have a voice in your Society, now is your chance. This is a business meeting, so plan to stay all day. The meeting starts at 9:00 AM and will end by 5:00 PM. Our 20th anniversary will be next June. Bring any ideas on how we might celebrate this milestone. Or contact an officer or board member with your suggestions. We will be ordering lunch brought in, so bring money to pay for your share, or if you wish, you may bring your own sack lunch. Coffee will be available.

We will be meeting at the Runge Nature Center in Jefferson City. Entrance to the Center is off Hwy 179 less than one-half mile north of Hwy 50. The intersection of Hwy 50/179 is approximately 2.5 miles west of the Hwy 54/63 intersection in mid Jefferson City.

FIELD TRIP IDEAS FOR 1999

If you have any ideas where you would like MONPS to visit on the field trips associated with the Quarterly Board meetings, join us at the December Board meeting in Jefferson City. Or you can contact an officer or board member with your suggestions.

Welcome to New Members

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

Peter Bernhardt, Webster Groves
Bill Davison, Swansea, IL
Mark C. Evans, Jefferson City
June Fiebig, St. Louis
Nancy Gabianelli, St. Louis
Kathryn J. Hoffmann, St. Louis
Betty Mack, St. Louis
Laurie R. Nadler, St. Louis

A Request for Assistance

The USDA Plant Materials Center has started a new project to collect, germinate, and propagate native species of typical tall grass prairie plants. The seed stock thus produced would then be made available for use by interested institutions to plant and maintain native plant communities. The seed stock may be used for prairie restoration, Conservation Reserve Program (CRP), and pasture studies/research, etc.

Specific species from prescribed geographic areas are preferred as follows:

(1) Osage Plains—(i.e., all the area west of a line from Saline County to Green County—approximately—and south of the Missouri River).

   *Echinacea pallida* (pale purple coneflower)
   *Coreopsis palmata* (finger coreopsis)
   *Dalea purpurea* (purple prairie clover)
   *Sorghastrum nutans* (Indian grass)

(2) North Missouri—(all the area north of the Missouri River).

   *Elymus virginicus* (wild rye)
   *Sporobolus compositus* (tall dropseed)
   *Desmodium canadense* (giant tick clover)
   *Asclepias tuberosa* (butterfly weed)
   *Liatris pycnostachya* (button snakeroot)

If you can help, individually or collectively by organizing a field trip, then collect seeds in small paper bags, or the equivalent, label with plant name, date and location. For more information, or to arrange for delivery call: Becky Erickson, USDA Plant Materials Center, Elsberry, MO, 573-898-2012; FAX 573-898-5298.
New Business

*Chinquapin* Invitation: President Morrison received an invitation from the editor of *Chinquapin* (newsletter of the Southern Appalachian Botanical Society) for MONPS to be featured in an upcoming issue under the “Organization Spotlight.” (This same editor told Morrison that the Petal Pusher is one of the best native plant newsletters around.) Morrison will draft an article for review, then submit it for their consideration.

The Wild Ones (Native Plant Gardening): Pat Grace reported on a new organization in the St. Louis area. The Wild Ones originated in Milwaukee by people who had been cited by the city for growing “weeds” in their yards. The St. Louis chapter has 45 members.

Monps Fall Weekend Activities

**11–12 September 1998**

by Jack H. Harris

Highlights of Society Activities (associated with quarterly board meeting in Kirksville, MO). Evening program organized and scheduled by Sue Hollis, Vice-president. Field trip organized and scheduled by Tim Smith, Field Trip Coordinator.

Friday evening - 11 September 1998; Truman University, Science Hall.

Dr. Steve Carrol has been studying *Viola pedata* (birds-foot violet), as a part-time project and, as time and resources permit, for about seven years. On this evening he shared some of his observations and a few questions that a focused study inevitably raises — with about two dozen MONPS members and a few graduate students from Truman University. Among the more intriguing questions, for example, was one implied by the observations about the species range. In particular, of the two more common color varieties of *V. pedata*, i.e., one with all petals the same color and one with two upper petals darker than the others, the bicolored version is found only on the interior of the species range, and rarely, maybe never, in a zone describing the range perimeter. Answers anyone?

Saturday, 12 September 1998; 8:00 AM.

Tim Smith presented a short “field tripper” orientation about the planned activities and distributed maps. The six car caravan headed out for Morris Prairie.

Subsequent to a very cordial greeting from the property owners, Ken & Marlene Morris, the group hiked from the residential area to the forty-seven acre prairie. A short sampling from the long list of the species observed which may be indicators of a high quality relatively undisturbed prairie community, includes: *Eryngium yuccafolium* (rattlesnake master), *Liatris pycnostachya* (button snakeroot), *Agalinus gattingeri* (rough stemmed gerardia), *A. skinneriana*.
(pale gerardia), Silphium laciniatum (compass plant), Pyrethrum tenuifolium (slender mountain mint), Schizachyrium scoparium (little blue stem), Solidago rigid (stiff goldenrod), Andropogon gerardii (big blue stem), Salix humulis (prairie willow), Aster urophylla (arrow-leaved aster), and Sporobolus heterolepis (prairie dropseed). Upon return from the prairie, the hot and thirsty visitors quickly gravitated to the shaded picnic table where they were treated to iced tea by our most gracious hosts. After many thanks to Ken & Marlene - we headed for a lunch break at a roadside rest area. The caravan then proceeded to the 4.176 acre Rebel’s Cove Conservation Area - the afternoon stop.

In strong contrast to the upland prairie plant community, we visited the prairie fresh water marsh section of Rebel’s Cove. Of course this change of habitat presented an entirely different array of plant species. A few of the more representative species observed were: Rumex verticillatus (swamp dock), Leersia oryzoides (rice cutgrass), Silvum suave (water parsley), Polygonum sagittatum (arrow-leaved tear-thumb), Bidens tripartita (swamp beggar ticks), Iva annua (marsh elder), Botrychium dissectum f. dissectum, and B. dissectum f. obliquum (cut-leaf grape fern), and a plethora of Cephalanthus occidentalis (button bush). After a couple hours of walking among oodles of prairie marsh plant species the field tripsters called it a day. The total species for the day, when adding the mornings oodles of prairie diversity to the afternoons marsh oodles, was sufficient to result in a consensus. The group expressed their sincere appreciation for the planning and preparation by Tim Smith that insured the day’s success.

Chapter News

Hawthorn Chapter — Programs: In July, Frank Gordon, Natural Resources Conservation Service, demonstrated three erosion control projects that use native plants: roadside maintenance; the old Algoa Farm; and an outdoor classroom that uses a diversion channel to create a small wetland. Frank has been working with the City of Columbia on renovating the old sewage treatment area. In August, Jim Whitey conducted a workshop on identification of aquatic plants. In September, Stan Shawz, Boone County Planning Office, brought us up-to-date on the status of the scenic roads designation in Boone County. Scenic road designation will be incorporated in Boone County’s revision of planning and zoning guidelines.

July-August field trip: Robin Kennedy, University of Missouri Herbarium Curator led a field trip along the MKT trail at Rocheport.

Other activities: Operated an exhibit at the Columbia Heritage Festival, September 19-20. Plants and books were available for sale.

Kansas City — We took a break this summer, but will start September with our annual plant and seed exchange on September 16. Later in September we will have a field trip to Foxglove Conservation Area, approximately 3 miles northeast of Excelsior Springs. It is named for the Auricula False Foxglove, Agalinis auriculata. October will find us going on another field trip to the Tickwood Ranch mesic prairie restoration project. This is a 40 acre site situated on the Osage questas of Southwestern Cass County, and is owned by two of our members, Dave Alburty and Carol Pranulis. Our final meeting before the end of the year will be on November 18th.

Osage Plains — There have been no meetings since our last report. Our first meeting for the fall will be next Monday evening at Marlene Miller’s farm. After a picnic meal, we will review some of the happenings of the summer and plans for the fall and winter calendar. Marlene and Carroll Eaglesfield will conduct the program. Our meetings in the future will again be held at the Henry County courthouse on the second Monday of the month at 7:00 pm. Programs to be announced.

Our most recent field trips included a portion of the Katy Trail and the Grand River bottoms. Our favorite finds were some beautiful cardinal flowers with their lovely vermilion flowers and a very large grouping of hibiscus with their huge white flowers turning pink as the day progressed (over 500 plants).

St. Louis Chapter — This summer was a busy one in St. Louis. The June meeting featured a walk in the woods instead of our usual speaker. We took advantage of one of the longest days of the year to explore Emmenegger Park. This urban property is adjacent to Powder Valley, and contains a floodplain forest as well as a ridge overlooking the Meramec River. Wildflower expert, the late Edgar Denison, augmented the woods with surplus from his garden, and the variety is as striking as it is unexpected. The July program was a description of a field trip by Owen Sexton, Washington University biology department, who spoke to us on “Random Observations of Plant Diversity in Alabama.” Most noteworthy were his slides of the many different kinds of carnivorous plants in that state. In August, Tom Lieffield, Missouri Department of Conservation presented an overview of the current status of the Columbia Bottoms, Mississippi River flood plain property, including its history and possible plans for future development.

In July, we took a two day field trip to the Iron County area. At Iron Mountain Lake and again at Bismark Lake, Pat Grace led a trek to view the purple fringeless orchid. On Sunday, Bill Summers was the leader of a walk to the fens in the Council Bluff Lake area where Phlox paniculata, Viola cucullata, and Goodyera pubescens were the featured attractions.
Tidbits

BIRDERS OUTNUMBER BOTANISTS
St. Louis Audubon Society's "Tale Feathers" August 1998 newsletter carried an interesting article on the growing sport of bird watching. A survey conducted by the Sporting Goods Manufacturing Association (SGMA) and the University of Georgia which was published in "Wild Bird News" indicated that 10% of the adult population, or 18 million Americans, claimed to spend 50 or more days birding each year. Assuming 1 million reasonably active adults in metro St. Louis' approximate 2 million population, excluding St. Charles, 100,000 should then be actively birding at least one day per week. This figure no doubt comes as a surprise to St. Louis Audubon and Webster Groves Nature Study Society birders, who would predictably (by these rules) expect to find more birders than birds at their favorite sites. The WCNSS Botany Group, whose weekly outings probably average 10 participants, would just as soon not have SGMA conduct a botanizers survey.

PAWPAW MYSTERY SOLVED
Botany field-trippers have often wondered why so many pawpaw (Asimina triloba) trees are seen, many with blossoms, but hardly ever any fruit. The answer arrives via the Tennessee Native Plant Society's June 1998 Newsletter, in an article by Dave Owen, originally published in the Summer 1997 issue of Wildflower. Newsletter of the North Carolina Wildflower Preservation Society. After a very good description of the plant, the author states that botanists have only recently discovered that the pawpaw tree is pollinated primarily by various species of carrion flies. Without these insects, the plant will not produce fruit. To solve this problem, commercial growers have strung animal entrails purchased from slaughter houses over the tops of pawpaw trees. The aroma draws carrion flies who pollinate the flowers, resulting in copious fruiting. However, the author does not recommend this method for your backyard pawpaw if one has sensitive neighbors.

CEMETERIES
In an article titled "Pushing Up Orchids," the September-October 1998 Audubon points out that biologists are finding rare plants and other creatures in the sanctuary of old burial grounds. Cemeteries often represent the only land which has not been plowed or turned into lawns. In Illinois, more than 150 old graveyards harbor 180 prairie species including threatened species such as the eastern prairie fringed orchid (Platanthera leucophaea). Also found was the rare rocket-shaped leafhopper, which feeds on native big bluestem (Andropogon gerardii). The endangered sand plain gerardia (Agalinis acuta) has been discovered in three cemeteries in New England. Rare cultivated plants live in cemeteries as well, such as a Pennsylvania cemetery yielding over 70 rose varieties. However, the article points out that finding these treasures doesn't guarantee success as inbreeding and exotic plant invasion are problems. Probably the worst menace, however, is well-meaning caretakers who regard everything but turf as a weed. The Nature Conservancy and several states have begun managing dozens of cemetery ecosystems, where instead of mowing, agricultural grasses are removed and burning instituted. A recent Webster Groves Nature Study Society botany trip to Missouri's southeast Bootheel area concentrated on cemeteries, where numerous interesting species were found, mainly on the "weedicier" sites. Well-groomed cemeteries, including several using herbicide around gravestones, generally presented very sterile landscapes.

SEDGES IN PERU
National Geographic's October 1998 "Earth Almanac" described how cultivated sedges are used to increase hunting prowess by the Matisgenka people who live in Peru's Manu National Park. A white fungus growth kills flowers and fruits, but not the bulb, which is chewed as a physical and mental stimulant. Although not poisonous, the chewed root is also applied to arrows because the hunters feel their shots are improved. The plant's name was not given, but based on the photograph, would appear to be a Cyperus.

XVI International Botanical Congress
AUGUST 1-7, 1999
AMERICA'S CENTER — ST. LOUIS, MISSOURI
The International Botanical Congress (IBC) is a convention of scientists from around the world which meet once every six years to discuss new research in all the plant sciences, including botany, mycology, plant ecology, horticulture, and agriculture. Held under the auspices of the International Union of Biological Sciences, the XVI IBC will be meeting August 1-7, 1999 at America's Center in St. Louis, Missouri with a nomenclature meeting being held the week before, July 26-30, 1999.

The early registration fee, not including hotel, costs $300 ($200 for registrants from developing countries) and students pay a reduced fee of $100. There are some fellowships for travel to IBC available, with applications particularly encouraged from registrants from developing countries and from graduate students and recent graduates. Processing of fellowship applications will begin February 1, 1998, so apply early! The conference will also have space for commercial and scientific exhibits.

Receptions, field trips, excursions, and other social events are also planned prior to, during and after IBC.

For more information or a registration form, contact:
Secretary General, XVI IBC
c/o Missouri Botanical Garden
P.O. Box 299, St. Louis, MO 63166-0299
Tel: (314) 577-5175, Fax: (314) 577-9589
E-mail: ibc16@mobot.org
Visit the web site at: http://www.ibc99.org

November–December 1998
Action Alert

In December of 1997 the Missouri Native Plant Society endorsed a national initiative called “Teaming With Wildlife” (TWW) that was designed to provide funding for habitat protection and environmental education (see Jan.-Feb. 1998 Petal Pusher). Although a TWW bill has not yet been introduced, other legislation is about to be introduced that can, with a few changes, meet the same needs. The bill is entitled THE CONSERVATION AND REINVESTMENT ACT OF 1998. House and Senate bills are likely to be introduced this fall with hearings to follow shortly. You can help by writing your Congressman/woman and Senator to encourage their support of the bill with the changes recommended by the Conservation Federation of Missouri. For more information, contact: The Conservation Federation of Missouri, 1-800-575-2322 or access http://www.teaming.com
MONPS members may also call the Environment/Education Committee: Jack Harris (address on back page) for more info.

A sample letter follows. Please revise / add your own opinions to personalize.

(Date)

Dear Senator Ashcroft/or Senator Bond,
Dear Congressman / Congresswoman [xxxxxxxxxxxx],

I frequently spend much of my recreation time engaged in non-game wildlife viewing and related outdoor activities, both in the vicinity of my home and on public lands. In particular I enjoy wildflower walks, native plant study, butterflies and bird watching, and various other aspects of exploring our natural heritage in Missouri. For this reason I support THE CONSERVATION AND REINVESTMENT ACT OF 1998 with the changes recommended by the Conservation Federation of Missouri. These changes will assure that the act meets the needs of protecting non-game wildlife and their habitats.

Stable revenue programs (both state and federal) in the hunting and fishing communities have proven to be of significant strategic value. As you know this plan will provide for stable funding sources derived from Outer Continental Shelf Oil and Gas leases.

I urge you to vigorously support THE CONSERVATION AND REINVESTMENT ACT of 1998 when it comes up for your consideration. And please advise me of action you have taken on this matter.

Sincerely,

[your name & address]

All MONPS members (and friends) are urged to write and ask their US Congressional Representatives and US Senators to actively support this proposed legislation. The envelope address for members of the House is: The Honorable [xxxxxxxxxxxx], US House of Representatives, Washington, DC, 20515; and for the Senate: The Honorable John Ashcroft/or/The Honorable Christopher Bond, US Senate, Washington, DC, 20510.

House of Representatives
The Honorable William Clay (District 1)
The Honorable James M. Talent (District 2)
The Honorable Richard Gephardt (District 3)
The Honorable Ike Skelton (District 4)
The Honorable Karen McCarthy (District 5)
The Honorable Pat Danner (District 6)
The Honorable Roy Blunt (District 7)
The Honorable Jo Ann Emerson (District 8)
The Honorable Kenny Hulshof (District 9)

Senate
The Honorable Christopher Bond
The Honorable John Ashcroft

INFORMATION ON JOINING MISSOURI NATIVE PLANT SOCIETY

<table>
<thead>
<tr>
<th>SOCIETY DUES</th>
<th>CHAPTER DUES</th>
<th>Make check payable to: Missouri Native Plant Society</th>
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<tr>
<td>(Chapter dues additional)</td>
<td>Columbia .............. $6.00</td>
<td>Mail to: Jack H. Harris, Treasurer</td>
</tr>
<tr>
<td>Student .......... $5.00</td>
<td>Jefferson City .......... $5.00</td>
<td>9708 Green Park Road, St. Louis, MO 63123-7133</td>
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(Circle all that apply)

Petal Pusher
Page 7
November – December 1998
Missouri Native Plant Society
P.O. Box 20073
St. Louis, MO 63144–0073

ADDRESS SERVICE REQUESTED

Missouri Native Plant Society Officers and Board Members

BOARD MEMBERS
Pam Haverland (96–99)
6901 Ginlet Lane
Columbia, MO 65201
573-443-2189
pamela_haverland@uwsa.gov

Robin Kennedy (96–99)
300 Westwood Ave.
Columbia, MO 65203
573-443-5629
rkennedy@biosci.missouri.edu

Ralph Lindgren (98–01)
2209 Kentucky
Joplin, MO 64804-2145
417-623-8084

Bruce Schuette (98–01)
678 St. Rd. 147
Troy, MO 63379
314-528-7247 (w)

Tim Smith (97–00)
1004 W. Main
Jefferson City, MO 65109
573-635-8585 (h)

Ann Wakeman (97–00)
5988 Windy Meadows Lane
Fulton, MO 65251
573-642-6927
trudee-ams@socket.is.net

ARCHIVES/BADGE PROG.
Jim Bogler
7916 Col. Dent Dr.
St. Louis, MO 63123
314-842-0111

ENV. AND EDUC.
Jack H. Harris
(see officers)

FIELD TRIPS
Tim Smith
(see board members)

MEMBERSHIP
Pat Grace
30 N. Iola
Webster Groves, MO 63119
314-961-2511

PUBLICITY
Nels Holmberg
530 W. Whiskey Creek Rd.
Washington, MO 63090
314-583-4551
FAX: (518) 262-8188

editorial@mons.cc

PUBLICATIONS
David Castaner
Sylvia Forbes
Donna Ford
Paul Redfearn

MISSOURIENSIS,
CO-EDITORS
George Yatskievych
MO Botanical Garden
P.O. Box 299
St. Louis, MO 63166
314-277-9522 (w)
gyatskievych@botanical.org

Doug Ladd
The Nature Conservancy
2800 S. Brentwood Blvd.
St. Louis, MO 63144
314-968-1105 (w)

PETAL PUSHER,
CO-EDITORS
Cari Darigo
553 Mapleview
University City, MO 63130
314-463-7057
carl.darigo@slap.org

Pat Harris
9708 Green Park Rd.
St. Louis, MO 63123
314-894-9021
pharris@slap.org

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 chapter representatives

COLUMBIA
Pam Haverland
(see board members)

JEFFERSON CITY
Ann Grote
5211 Redbud Rd.
California, MO 65018
573-794-4478

KANSAS CITY
Daniel Rice
815 W. 31st St.
Independence, MO 64055
816-463-6205

OSAGE PLAINS
Marlene Miller
949 NE Hwy C
Calhoun, MO 65323
816-694-3581
jwumluk@iand.net (I)
nmiller@iand.net (S)

ST. LOUIS
John Oliver
4861 Gatesbury Dr.
St. Louis, MO 63128
314-487-5924
oliver@slap.org (S)

http://www.missouri.edu/~umo-herb/monps

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Inside This Issue
• December Board Meeting
• Book Shelf
• Action Alert

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