

JANUARY - FEBRUARY 1995

VOL. 10, NO. 1

MISSOURI NATIVE PLANT SOCIETY

JANUARY

- 3** Tue., 7:30 PM
Jefferson City **Outdoor Photographs:** Helpful Tips and Insights on Close-up Photography, program presented by Lloyd Grotjan. Monthly meeting at the Runge Conservation Nature Center.
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- 11** Wed., 7:30 PM
St. Louis **Missouri Prairies,** program presented by Doug Ladd, director of Science & Stewardship, Nature Conservancy. Webster Groves Nature Study Society (WGNSS) Botany Group meeting held at Powder Valley Conservation Nature Center.
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- 14** Sat., 10 AM-5 PM
St. Louis **Environmental Summit,** Missouri Botanical Garden, Ridgway Center. Goal: To produce a 1-3 year strategic plan for improving collaboration and effectiveness of St. Louis area environmental/conservation organizations. For information call (314) 553-5322.
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- 18** Wed., 7 PM
Kansas City **Kansas City Chapter Annual Business Meeting.** We will elect new officers and plan both our budget and field trips for the coming year. After the work, we will show slides. Bring along any new ones to share.
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- 25** Wed., 7:30 PM
St. Louis **Monthly meeting.** Program to be announced. Missouri Botanical Garden, Ridgway Center.

FEBRUARY

- 1-3** Wed.-Fri.
Osage Beach **Missouri Forest, Fish and Wildlife Conference.** Theme: Ecosystem Management. Held at Tan-Tar-A. Registration \$20.00 before Jan 6. For more info contact Thomas Kulowiec, MDC, 1110 S. College Ave., Columbia, MO 65201-5299.
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- 5** **DUE DATE FOR MATERIAL FOR MARCH-APRIL 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.
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- 8** Wed., 7:30 PM
St. Louis **Plants and Places in Michigan,** program presented by Dr. George Yatskievych, Curator, Missouri Plants, and Kay Yatskievych, Missouri Botanical Garden. WGNSS Botany Group meeting held at Powder Valley Conservation Nature Center.
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- 15** Wed., 7 PM
Kansas City **Monthly Meeting.** Program to be announced. For more information contact Mike Laird (913) 677-2830.
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- 22** Wed., 7:30 PM
St. Louis **Not Every Cucurbit is a Pumpkin,** program presented by Denis Kearns, post graduate researcher at Missouri Botanical Garden. Monthly meeting at the Missouri Botanical Garden, Ridgway Center.

DUES FOR 1995 ARE NOW DUE

Quarterly Board Meeting Highlights December 3, 1994

President Stephen L. Timme and 15 board members met at the Mark Twain National Forest Office in Rolla, Missouri.

Treasurer's report indicated a balance of \$8,510.39 for a decrease of \$31.52 since September 1994.

Committee Reports

Missouriensis: George Yatskievych reported he only has material for 8–10 pages. If submissions don't increase, we may not be able to sustain two issues a year. (See article on page 3.)

Petal Pusher: Pat Harris reported the deadline is now the 5th of these months: Feb., April, June, August, Oct. and Dec. All material (meeting info., field trip info., articles, reports, etc.) needs to be to the editor (written, preferably typed or on disk) by this date.

Membership: Ann Wakeman will send a dues reminder after the first of the year.

Environment/Education: Jack Harris reported that the Missouri Highway & Transportation Dept. (MHTD) issued a proposed rule as part of the process implementing the law regarding the digging of plants along highways. MONPS has prepared comments & submitted them for MHTD's consideration.

Field Trips: We have a new field trip coordinator, Alan Ross, an undergraduate student at Pittsburg State University. (See address on back page.)

Book Sales: We had one order with a profit of \$6.31.

Old Business

Distribution of \$ between Chapter & Society: Jack Harris distributed a draft policy on how to allocate the proceeds from fund raisers. Board members should take this back to the Chapters for review so we can discuss it at the next meeting.

Badge Program: Pat Harris talked to Patti Redel, an education consultant for MDC. Patti said she could get the brochures distributed to schools around the state. It was decided we should ask her to target the secondary schools at the math & science teachers Interface Conference in February. It was suggested the Badge Program could be used as a basis for Science Fair projects.

Joint Meeting with Illinois NPS: Larry Morrison said he will send a proposal to INPS that we may meet on the first weekend of June 1996, in the Cape Girardeau area. Field trips can be held one day in MO and one day in IL. Our annual meeting & business meeting will be scheduled on Sat. evening.

Joint Meeting with Arkansas NPS: Stephen Timme reported that Arkansas already has their schedule set for 1995. If we want to meet with them, they prefer to have two meetings. One year in AR and another year in MO. We won't be able to do this until 1996 & 1997.

Midwest Oak Savanna & Woodland Ecosystem Conference, Sept 27–29, 1995: Lynda Richards advised that for \$50–\$100 we can become a sponsor and have MONPS name listed in the brochure. It was moved, seconded and carried (MSC) to spend no more than \$100.00 to sponsor the conference.

Consumer Guidelines for Nurseries Task Force Report: Karen Yates advised the Board that their Committee proposes 2 goals: (1) to follow the lead of other state Native Plants Societies (NPS) and send questionnaires to nurseries about their propaga-

tion policies, practices, etc.; and (2) publish guidelines for consumers citing what questions can be asked of nurseries. These were intended to assure consumers that sales of plants they may purchase were propagated in keeping with acceptable practices.

Debate of this issue concluded that MONPS should provide information and advisory literature to assist our members in making wise selections and purchases of plants, etc., but that MONPS should not presume to question or approve the activities of enterprise (i.e., nurseries) in the process of their business practices. This policy places the charge of deciding which nurseries are successful in the area of plant sales on the market and not on the MONPS organization.

(Send any ideas about guidelines or questions to Karen Yates. Address on back page.)

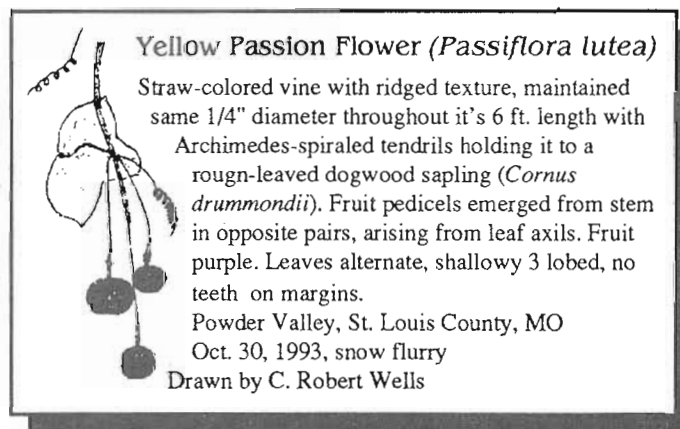
New Business

Chevron Award: Stephen Timme informed us MONPS was asked to write a letter in support of the DNR Stewardship Program for this national award. It was (MSC) that Steve prepare appropriate documentation.

1995 Board Meetings and Field Trip Schedule: April 23–24; June 24–25; Sept. 30–Oct. 1; Dec. 2. (See notice on page 2.)

Celebrating Wildflowers Week: In response to a consideration of an organized campaign, Chapters were advised that the Society does not plan a specific project this year.

Committee Appointments: Awards — George Yatskievych and Jim Bogler; Ballot — Karen Yates, Karen Haller, Dan Rice; Nominating — Sue Hollis, Janet Hicks, Nels Holmberg and Mike Laird. (See articles on page 3.)



1995 MONPS Meetings

Mark your calendars now. The quarterly MONPS Board meetings have been scheduled for 1995. Join your fellow plant enthusiasts for some exciting field trips in these areas.

April 22–23 Van Buren area in southeast Missouri. See the March–April issue of the *Petal Pusher* for details.

June 24–25 Annual Board Meeting. Pershing State Park.
Sept. 30–Oct. 1 Springfield

December 2 Jefferson City, Runge Conservation Nature Center, for an all day business meeting.

Welcome to New Members

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

Max Alleger, Green Ridge
Paul Berry, St. Louis
Patrick Byrne, Columbia
Carol Crego, Columbia
Joanna Gerst, St. Louis
Mary & Rich Guyette, Ashland
Jerry Henderson, St. Louis
Dorothy M. Hickam, Jackson
Doug LeDoux, Columbia
Rachel Locke, St. Louis
Northeast Missouri State Univ., Kirksville
Ann Rebmann, Columbia
Karen Schaffer Meldrum, St. Louis
Henry Scheer, St. Louis
Kendra Sikes, St. Louis
Marian Smith, Edwardsville, IL
Donna Stearns, Florissant
William S. Switzer, Chesterfield
Andrew Thomas, St. Louis
Mr. & Mrs. Wm. D. Tometich, Jefferson City
Margaret Wamsley, Kansas City



Did You Forget to Write?

If *Missouriensis* is to continue to grow and change to reflect the growth and changes within our Society, we need your help. We would like to have far more material for publication in the journal than has been received in the past. Many members of MONPS have knowledge or experience that would be of interest to others. We encourage any of you to write articles, even brief, simple ones, and send these to us. We are committed to maintaining a mixture of technical and popular levels in the journal, but can only do this with your support. As editors, we are merely the final assemblers of a product generated by the Society, and the success of *Missouriensis* will be due entirely to the efforts and interest level of the membership.

To that end, we always want to hear from you regarding your thoughts about the journal, including comments, suggestions, and complaints. It is only through this type of feedback that we can continue to develop *Missouriensis*, and hopefully to live up to the traditions established by our previous editors. Again, on behalf of the Missouri Native Plant Society, our appreciation to all of the previous editors: Paul Reinfearn, Nancy Morin, Erna Eisendrath, Joanna Turner, and Rebecca Haefner.

Best wishes and don't forget to write,

George and Doug

Editors of *Missouriensis*

Reprinted from *Missouriensis*, 1993, Vol. 14, No. 1, as a reminder. (See back page for addresses of editors.)

Committees Announced

The following committees were appointed at the December Board meeting:

Awards Committee: George Yatskievych (Chair), Jim Bogler.

Ballot Committee: Karen Yates (Chair), Karen Haller, Dan Rice.

Nominating Committee: Sue Hollis (Chair), Janet Hicks, Nels Holmberg, and Mike Laird.

Nominations for MONPS Board Requested

We will be electing all officers and two board members in 1995: President, Vice-President, Secretary, and Treasurer. The board members whose term is up in June are: Sue Hollis and Karen Yates.

If you have a candidate you wish to nominate for any of these positions, please contact a member of the Nominating Committee. Sue Hollis, Kansas City (Chair) (see back page); Janet Hicks, Springfield; Nels Holmberg, St. Louis (see back page); Mike Laird, Kansas City, (913) 677-2830.

Nominations Sought for MONPS Awards

President Stephen L. Timme has appointed an Awards Committee to receive nominations for 1995 from members of the Society for the four major awards, which are:

1. Erna R. Eisendrath Memorial Education Award. To be awarded to an individual who, through teaching, writing, or other form, has significantly conveyed to others an appreciation and knowledge of Missouri's native flora. This award may be presented annually if merited.
2. Arthur Christ Research Award. To be awarded to an individual who has made a significant contribution toward furthering the knowledge of Missouri flora. This award may be presented annually if merited for accomplishments made during the award year.
3. Plant Stewardship Award. To be awarded to an individual or organization for preservation of important elements of Missouri's flora through purchase, registry, and/or management practice. This award may be presented annually if merited.
4. Julian A. Steyermark Award. The Society's highest award to be presented to an individual who has made outstanding contributions to any or all aspects of Missouri botany. This award is to be given as merited for superior achievement.

Recipients need not be members of the Society.

The Committee will consider those nominations received by April 15. Committee members are George Yatskievych (Chair) and Jim Bogler, both of St. Louis. Please send nominations to George Yatskievych at the Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166, setting forth the contributions of the individual or organization. Awards will be presented at the June Annual Meeting.

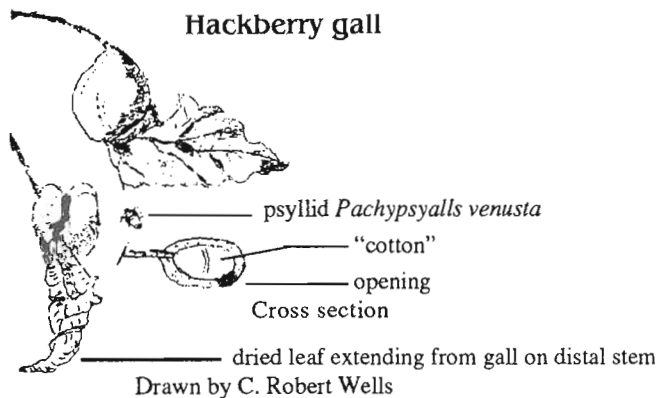
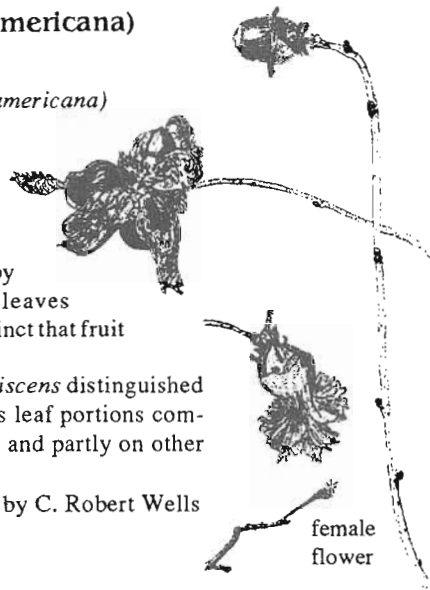
Hazelnut (*Corylus americana*)

Hazelnuts (*Corylus americana*)

found in Emmenegger Woods bottomland in late February 1994 having survived the winter. Note: Center picture shows fruit surrounded by two broad cut-toothed leaves (bract of involucre) so distinct that fruit appears to be open.

Lower left var. *indehiscens* distinguished only by its fruit which has leaf portions completely united on one side and partly on other side so it appears closed.

Drawn by C. Robert Wells



13 January 1994 Northwoods, Queeny Park, St. Louis County, MO. Hiked with Fr. Sullivan and 6 other WGNSS botanists. Temperature at freezing, light breeze, grey overcast sky. Not really cold but a penetrating dampness owing to high humidity.

The hackberry gall mimics hazelnuts. Each gall has permanent opening on bottom portion. That opening is insulated with a white-cottony material in which one, two, or three psyllid survive winter. This flat-bodied sucking insect infests *Celtis occidentalis* trees.

Wanted: Plant Lists

As part of a project investigating the biodiversity of vascular plants in North America north of Mexico, we are seeking information about floras for regions smaller than states (i.e., parks, forests, nature preserves, research areas, islands, counties, individual bogs, mountains, study sites, etc.). Goals of the project include: 1) devising a method to estimate the size of floras and the degree of completeness in a species list, 2) developing species-area curves for different regions of North America, 3) determining the effects of environmental factors such as topography, soils, land use, and climate on species-area relationships. In addition, we will compile a bibliography of published floras and plant lists for North America.

To accomplish these goals, we need to see as many floras/plant lists as possible. We currently have information from about 3000 floras. However, we suspect that there are many more published in obscure places that we have not yet identified. We would appreciate information about floras or plant lists in obscure journals, proceedings of state or regional academies of science, government documents (e.g., environmental impact reports), theses, or dissertations, and about privately published or unpublished lists. We would appreciate entire lists in the form of reprints or photocopies, but any sort of bibliographic data is welcome. We are equipped to handle lists in most electronic forms, but prefer IBM format. For floras west of the Mississippi River, in Minnesota, and Canada, west of (and including Manitoba and Northwest Territories), please contact: Paul Neal, Department of Botany, Oklahoma State University, Stillwater, OK 74078-0293, USA (telephone: 405-744-7717, e-mail: prneal@vml.ucc.okstate.edu). For floras east of these regions, please contact Gary L. Wade, Northeastern Forest Experimental Station, US Forest Service, PO Box 968, Burlington, VT 05452, USA (telephone: 802-951-6771, e-mail: gwade@moose.uvm.edu). We would also appreciate your suggestions about knowledgeable individuals or groups that might be able to provide floras/plant lists.

Wildflower Seed Available From NEWFS

For Gardeners looking for wildflowers to enhance their home landscape, the New England Wild Flower Society (NEWFS) is offering seeds or spores of over 175 varieties of wildflowers and ferns in their 1995 *Seed and Book Catalogue*.

Included in the *Catalogue* are natives for woodland, wetland, and meadow gardens. Spring blooming wildflowers add color to shade gardens while sun-loving varieties splash vibrant colors in summer borders or along pond shores. Once established perennial wildflowers bloom for many years.

The wide choice of seeds offers novice to experienced gardeners an economical way to obtain wildflowers for their garden and an opportunity to grow native plants not usually available from nurseries. For people trying for the first time to germinate wildflowers from seed there are many easy to grow varieties such as Blue Star (*Amsonia tabernamontana*), Columbine (*Aquilegia canadensis*), Blazing-star (*Liatris sp.*), and Foamflower (*Tiarella cordifolia*). More experienced gardeners might want to try ferns, gentians, pitcher plants, or native species of rhododendrons.

All requests for the 1995 *Seed and Book Catalogue* must be received by March 1 because seed sales close March 15. Requests will be filled in the order received. The *Catalogue* is an adjunct of the Society's world-wide seed distribution effort.

To obtain the *Catalogue*, please send \$2.50 to Seeds, New England Wild Flower Society, Garden in the Woods, 180 Hemenway Road, Framingham, MA 01701.

Members of NEWFS will automatically receive the *Seed and Book Catalogue* in January 1995.

BYLAWS OF THE MISSOURI NATIVE PLANT SOCIETY

(Revised, December 1990)



ARTICLE I – Name and Purpose

- Section 1. The name of this society shall be the Missouri Native Plant Society (hereinafter referred to as “the Society”).
- Section 2. The purpose of the Society is to promote the enjoyment, preservation, conservation, restoration, and study of the flora native to Missouri; to educate the public about the values of the beauty, diversity, and environmental importance of indigenous vegetation; and to publish related information.

ARTICLE II – Membership

- Section 1. Membership in the Society shall be open to all persons interested in the purposes of the Society upon application to the Treasurer, accompanied by remittance for dues as hereinafter provided. Membership classification shall be set as needed by the Board of Directors.
- Section 2. Each member shall be entitled to one (1) vote on any question requiring a vote of the membership of the Society.

ARTICLE III – Meetings

- An annual meeting of the Society shall be held in June of each year at a date and place determined by the Board of Directors. Special meetings of the membership may be called at any time by the Board of Directors. All members shall be notified in writing not less than two (2) weeks before such meetings.

ARTICLE IV – Dues

- Dues shall be fixed and revised as needed by the Board of Directors.

ARTICLE V – Officers

- Section 1. The officers shall be a President, Vice-President, Secretary, and Treasurer who shall be elected for a term of two (2) years. Officers shall serve without compensation.
- Section 2. The President shall preside at meetings of the membership and of the Board of Directors, and shall perform the recognized functions of the office.
- Section 3. The Vice-President shall preside in the absence of the President, shall be responsible for Board of Directors and annual meeting programs and shall give notification of such meetings to the general membership, and shall perform other recognized functions of the office. The Vice-President shall become President if the office of President becomes vacant.
- Section 4. The Secretary shall keep the minutes of all meetings of the Society and the Board of Directors. The Secretary shall prepare such directives and other documents as are needed and authorized by the Board of Directors, shall provide a copy of the Society Bylaws to each new Director, and shall perform other recognized functions of the office.
- Section 5. The Treasurer shall keep and maintain accurate accounts of the transactions of the Society, including accounts of its assets, liabilities, receipts and disbursements. The Treasurer shall deposit all money and other valuables in the name and to the credit of the Society with such depositories as may be designated by the Board of Directors, shall render to the President and Board of Directors, whenever they request it, an account of all his or her transactions as Treasurer and the financial condition of the Society and shall maintain a roster of all members, and shall have such other powers and perform such other duties as may be prescribed by the Board of Directors or the Bylaws.
- Section 6. The Immediate Past President shall be an honorary officer but shall not vote as an officer or Director.
- Section 7. Each officer shall, upon the expiration of his or her term, or the termination of his or her duties for any other reason, deliver to his or her successor the records of the office.
- Section 8. Except for the duty of presiding at meetings, each officer shall do or cause to be done his or her duties.
- Section 9. A vacancy, other than one caused by expiration of a term, in the office of Vice-President, Secretary, or Treasurer shall be filled by a vote at the next Board meeting. A new officer thus elected shall complete the term of office of the Director whom he or she replaces.

ARTICLE VI – Governing Body

- Section 1. All official business of the Society shall be conducted by the Board of Directors of the Society (hereinafter referred to as “the Board”). Only members of the Society shall be eligible for Board membership.
- Section 2. The Board shall consist of the elected officers of the Society, the chairpersons of such standing committees as may be appointed by the President with the approval of the Board, chapter representatives, six (6) Directors elected by the general membership, and the editors of *Missouriensis* and *Petal Pusher*.
- Section 3. Chairpersons of standing committees shall serve for the term of the appointing President. Chapter representatives shall serve for one (1) year. Two (2) of the six (6) elected Directors shall be elected each year and shall serve three (3) year terms.
- Section 4. Each Director shall have one (1) vote and shall serve without compensation.
- Section 5. After a Director other than a chapter representative is absent for three (3) consecutive meetings, the Board may declare the office vacant.
- Section 6. Any Director may be removed from office by resignation, death, or incapacity. Resignations shall be effective with the date of receipt of notice delivered to an officer or at any later time specified, and need not be accepted by the Board to be effective.
- Section 7. A vacancy on the Board other than one created by loss of an officer or chapter representative or by expiration of his or her term shall be filled by a vote at a Board meeting. A new Director thus elected shall complete the term of office of the Director whom he or she replaces.
- Section 8. There shall be four (4) regularly scheduled Board meetings per year. One (1) of these Board meetings shall be held in the same seven (7) day period as the annual membership meeting. If a quorum is not present at a Board meeting, the Directors present may adjourn the meeting but it will count as one (1) of the four (4) regularly scheduled Board meetings for that year.
- Section 9. Additional meetings may be called by the President, or in his or her absence or inability, by the Vice-President. In the event of the refusal of the President to act, a special meeting may be called by five (5) Directors. All Directors shall be notified in writing not less than ten (10) days before such meeting of the date, time, and place of the meeting.
- Section 10. The presence of forty percent (40%) of the Directors at a Board meeting shall constitute a quorum for the transaction of business. Every act or decision by a majority of the Directors present at a Board meeting duly held, at which a quorum is present, shall be regarded as a valid act of the Board except as provided elsewhere in the Bylaws of the Society.

ARTICLE VII -- Elections

- Section 1. Not later than December 31 each year, a nominating committee consisting of a chairperson and two (2) or more members of whom only one (1) is a Director shall be appointed by the President with the approval of the Board. The President shall instruct the nominating committee in the performance of its duties.
- Section 2. Not later than February 28 each year, the nominating committee shall nominate one (1) or more candidates other than themselves for each office and elective Board seat to be filled, and shall notify the membership in writing, either by publication in the *Petal Pusher* or by separate mailing, of the names of the nominating committee, the offices to be filled, the names of the nominees, and the closing date for nominations. In the same mailing, instructions for nominations from the membership and a mailing address for the nominating committee shall be provided. The closing date for nominations shall not be less than twenty (20) days from the date of the mailing.
- Section 3. Additional nominations may be made by the membership by a written nomination from one member and a written second by another member. Each nomination must be accompanied by a written confirmation of willingness to serve by the nominee.
- Section 4. Not later than March 31 each year, a ballot committee consisting of a chairperson and two (2) or more members of which no more than one (1) is a Director shall be appointed by the President with the approval of the Board. The President shall instruct the ballot committee in the performance of its duties.
- Section 5. Within five (5) days of the close of nominations, the nominating committee shall provide to the ballot committee the names of all the candidates and the office for which each is nominated.
- Section 6. If only one (1) candidate has been nominated for an office by the closing date of the nominations, the ballot committee shall declare that candidate elected by acclamation, and that candidate shall not be placed on the ballot. If only one (1) person is nominated for each of the offices to be filled, they shall all be declared elected by acclamation not later than May 20, and no ballot shall be prepared.
- Section 7. Not later than April 30 each year, if there are any offices not elected by acclamation, the ballot committee shall cause a ballot to be mailed to the membership, either by publication in *Petal Pusher* or by separate mailing. The ballot shall contain the names of the offices to be filled, the names of all the candidates for each office, the address to which ballots

- are to be mailed, and the closing date, not less than twenty (20) days from the date of the mailing, of the election.
- Section 8. Ballots shall be counted by the ballot committee. A plurality of votes cast for an office shall constitute election to the office. No votes for write-in candidates shall be accepted.
- Section 9. The ballot committee shall report to the President the names of those elected not later than ten (10) days before the annual meeting.
- Section 10. In case of a tie vote, the Board shall decide by vote or by chance, such as flipping a coin, at the next Board meeting.
- Section 11. Newly elected officers and other Directors shall take office at the conclusion of the annual meeting or the Board meeting held in the same seven (7) day period as the annual meeting, whichever is later.

ARTICLE VIII – Publications

- Section 1. The official publications of the Society are *Missouriensis* and *Petal Pusher*. *Missouriensis* shall be a journal to report botanical information and other material as directed by the Board. *Petal Pusher* shall be a newsletter for the publishing of information of meetings, activities and elections in a timely manner, and other material as directed by the Board.
- Section 2. Both publications shall be published at times directed by the Board.

ARTICLE IX – Chapter and Affiliate Organizations

- Section 1. A group of five (5) or more persons, members or nonmembers of the Society, may organize a chapter of the Society by a request to the Society Secretary and with approval of the Board. The request shall be accompanied by the payment of current dues for each nonmember to the Society Treasurer.
- Section 2. Members of each chapter shall elect their own officers, consisting of at least a President, Vice-President, Secretary and Treasurer or Secretary/Treasurer. All election results shall be promptly reported to the Secretary of the Society.
- Section 3. Each chapter shall annually designate a representative to the Board. The name of the designated representative shall be reported to the Secretary of the Society not less than five (5) days before the annual meeting. Each chapter shall report a chapter representative vacancy and any new chapter representative designee to the Secretary of the Society immediately.
- Section 4. Chapter representatives may be represented by an alternate presenting a written statement to that effect from any officer of that chapter at the beginning of each Board meeting. Such an alternate shall have all the rights and privileges as the chapter representative would have had at that Board meeting.
- Section 5. Chapter representatives and alternates may be chosen in any manner the chapter wishes but each must be a member in good standing of the Society and of the chapter.
- Section 6. All members of a chapter must be members of the Society, and are entitled to all the privileges pertaining thereto.
- Section 7. Local chapters may establish chapter dues in addition to Society dues.
- Section 8. Chapter meetings shall be held not less than four (4) times annually, the time and place to be decided by the chapter officers.
- Section 9. Chapters may adopt their own Bylaws, not inconsistent with those of the Society.
- Section 10. Each chapter treasurer shall collect the annual dues of the Society from each member and shall remit the dues to the Treasurer of the Society.
- Section 11. An already organized club or society may be known officially as an affiliate of the Society upon payment of annual dues as set by the Board. One copy of *Missouriensis* and one of *Petal Pusher* shall be sent to the President of the affiliate organization. Neither affiliate organizations nor members of affiliate organizations may vote in any matter brought before the members of the Society unless they are also regular members of the Society.
- Section 12. No chapter or affiliated society, nor any officer or member thereof, except with the approval of the Board, shall have power to act for the Society in any official manner, financially or otherwise. Chapters shall hold harmless the Society from any liability in connection with activities or functions of the chapters.

ARTICLE X – Fiscal Year

The fiscal year of the Society shall be the calendar year.

ARTICLE XI – Amendments

These Bylaws may be amended by an affirmative vote of two-thirds (66.7%) of the Board of Directors.

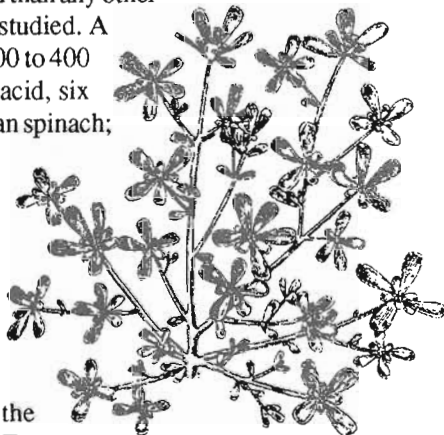
The Bylaws are required to be printed in the *Petal Pusher* every odd year in the first six months of that year.

READER CHIDES NATIONAL GEOGRAPHIC WITH BOTANY LESSON

The April 1994 *National Geographic* carried a feature article on John Wesley Powell's 1869 exploration of the Colorado River and Grand Canyon. On pages 96-97 is a modern-day photograph taken in Crouse Canyon, Utah, showing numerous dried plants surrounded by a cloudy haze, carrying a quotation by Powell, "Hills laugh with delight as burgeoning bloom is spread in the sunlight." A letter to the editor from a Utah reader in the August issue takes the magazine to task by commenting that the hills are probably "shuddering, not laughing" as the "bloom" is most likely the floating seedlings of the noxious imported Canada thistle (*Cirsium arvense*), a sight that Powell certainly never saw. *National Geographic* subscribers may wish to inspect this photograph themselves and draw their own conclusions.

SPINACH SUBSTITUTE

A U.S. Department of Agriculture report, excerpted in the July 1993 *Reader's Digest*, says that a plant usually considered a troublesome weed has been found to contain high levels of fatty acids, vitamin E and other nutrients, making the plant a prime candidate as a new vegetable crop. Researchers have confirmed that common purslane (*Portulaca oleracea*) contains more of one Omega-3 fatty acid than any other green leafy vegetable studied. A half-cup serving has 300 to 400 mg of alpha-linolenic acid, six to seven times more than spinach; Omega-3 fatty acids are essential in building cell membranes. *Portulaca oleracea* also contains more vitamin E than spinach. The fleshy, oval leaves reportedly have a mild, nutty taste and the plant is already used in Europe for salads. Steyermark in his *Flora of Missouri* also gives several ways of preparing *Portulaca oleracea* for food uses.



EDIBLE PESTS

The December 1994 *Sierra Magazine* is dedicated to eco-eating, subtitled "The Planet on Your Plate," otherwise "Saving the Earth Three Times a Day." An article called "Culinary Pest Management," by Marc Lecard, should be of interest to plant enthusiasts. He advocates controlling pests by eating same, such as common purslane, curly dock, wood sorrel, burdock, lamb's quarter, plantain, dandelion, chicory, chickweed, wild onion, even kudzu and the nefarious wood nettle. He also recommends controlling various bugs, such as ants, grasshoppers, grubs, caterpillars and locusts the same way, but admits his experience with crawling cuisine is limited. Some cultures apparently do dine on insects, whose flavors are variously defined as nutty or

buttery. Mr. Lecard laments that one of the worst pests, crabgrass, is inedible; but he does recommend dining on European brown snails (a pest widespread in many California yards), but only after the snails cleanse themselves for several days on corn meal and lettuce, are blanched, washed with vinegar, boiled, then dosed with copious amounts of garlic and butter.

BAMBI THREATENS BIODIVERSITY

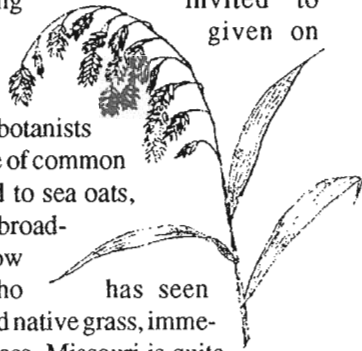
Naturalist James Trager of the Missouri Botanical Garden Shaw Arboretum revealed some very interesting information on deer threat to our forests in an article published in MBG's September/October 1994 *Bulletin*. Best available estimates indicate that deer occurred in populations of five to fifteen per square mile at the time of European settlement. Forests within this range of deer numbers today are the healthiest in terms of plant diversity, both in wildflower abundance, number of tree species and diversity of animals that depend on plants. Forests with greater than 15 deer per square mile show signs of decline. Studies have shown that over 60 deer per square mile, common in many midwestern and eastern U. S. forests today, results in about 30% reduction in sapling height and species, about 35% reduction in songbird abundance and a shocking 300% reduction in wildflower abundance. All other forest life is dependent on plant diversity, so as deer destroy biodiversity among plants, other species suffer losses as well. Based on the number of deer frequently seen in some of our protected areas, such as state parks, the magic number of less than 15 per square mile may be difficult to attain!

INVASION OF THE ALIENS

Readers of *Audubon* magazine will recognize Ted Williams' thoroughly interesting, but sometimes controversial writing. His September-October 1994 article on the dangers of alien plants will undoubtedly draw numerous "letters to the editor." If Mr. Williams statements are correct, this country is in serious trouble with many governmental agencies, both state and federal, plus various lobbying organizations actually favoring propagation and planting of alien species. Primary offender is the U. S. Soil Conservation Service who was responsible for introducing kudzu and multiflora rose, and is continuing to grow and push Amur honeysuckle, autumn olive, sericea lespedeza, crown vetch, tartarian maple and amur maple, among other invaders. Compounding the problem is the confusing definition of native species, such as the North Carolina DOT planting vast beds of California poppies along highways; one state botanist warned that "if California poppies escape along the roadside, North Carolina will have introduced another weed." The nursery lobby also comes in for a share of blame, for example, promoting cultivation of water hyacinth in Florida, opposing the ban of purple loosestrife sales in Ohio and opposing Illinois Department of Conservation attempts to ban sale of crown vetch, amur honeysuckle and autumn olive. Even the Sierra Club is involved, their Florida chapter apparently recommending planting of "neem," a fast-growing tree from India, reputed to be a cure-all for many ailments. Anyone interested in native plants should definitely read this sobering article.

WHY NOT SPANGLE GRASS?

Texas Native Plant Society News September/October 1994 shows a perfect rendition of *Chasmanthium latifolium* as "mystery plant" with the reader being invited to guess the name. The answer is given on another page, along with a new common name entry, inland sea oats. Many Missouri amateur botanists have suffered through a multitude of common names, including but not limited to sea oats, wild oats, broad leaf spike grass, broad-leaf uniola and spike grass. Now Texas added another! Anyone who has seen this widespread, easily recognized native grass, immediately calls the plant spangle grass. Missouri is quite distant from any sea coasts, so that spangle grass would seem to be a more descriptive and accurate common name.



NATIVE GRASSES IN ROADSIDE PRAIRIE PLANTINGS

The Summer 1994 issue of *Greener Roadsides*, publication of the Federal Highway Administration, carried an article by Dr. Evelyn Howell, University of Wisconsin, on advantages of native grasses, such as big and little bluestem, Indian grass and switchgrass in roadside wildflower plantings. Grasses dominate native prairies, providing the matrix or environment within which wildflowers thrive. Some advantages of using native grasses are color contrast in different seasons, competition prevents forbs from becoming ragged and top heavy, root systems help prevent erosion, the dense sod reduces noxious weed, weedy brush and tree growth, provides cover for insect predators and gives cleaner fires where burn control is used.

CULTIVATING GINSENG

Nation's Business is a financial magazine mainly concerned with promoting small business. In the December 1994 issue, a reader wrote asking for information on growing ginseng (*Panax quinquefolius*). The magazine responded with a somewhat inaccurate picture of the leaf structure, but did furnish interesting information. Most American ginseng comes from nearly 1,300 growers in Wisconsin. The U. S. 1993 root harvest totaled almost 1.7 million pounds, valued at \$70 million. Biggest customer is China, where the plant is used in a stomach-smoothing tonic. Potential growers can obtain more information from the Office for Small-Scale Agriculture in the U. S. Department of Agriculture or workshops at University of Wisconsin. Ginseng buffs can also subscribe to a bimonthly newsletter, *American Ginseng Trends* or attend International Ginseng Conferences, the 1994 conference being held in British Columbia, Canada.

SILENCE OF THE BEES

The Earth Almanac section of *National Geographic* December 1994 issue contained an article on relationship of an exotic orchid in Hawaii and honey bees. The orchid, *Dendrobium stratiotes*, native to the Moluccas and other Indonesian islands, has been introduced in a private botanical garden on Oahu.

Honey bees entering the blossoms have all been found dead. The orchid is pollinated in native locations by smaller bees which can enter and exit the blossoms with no problems. However, the honey bee is larger, can enter to seek nectar, but cannot back out, so is trapped and dies inside the flower. Cultivated orchids rarely go wild, so perhaps Hawaii's honey bees are safe.

TENNESSEE HIGHWAY PLANTINGS

The Tennessee Native Plant Society is not happy with their Department of Transportation highway plantings, as explained in the June 1994 *Tennessee Native Plant Society Newsletter*. Apparently, despite a 1993 \$150,000 pilot study recommending planting of native flora along interstate and state highways, DOT has begun planting about 20 species, with all but three being alien. Compounding the problem is that some of the nonnatives, including species such as dame's rocket (*Hesperis matronalis*), have proven to be invasive to native plants. DOT not only is working against a sister state agency, Environment and Conservation, which has been discouraging the use of alien species, but also is ignoring successful highway wildflower projects in other states, notably Texas and Virginia. Tennessee DOT must have taken lessons from Missouri's Highway Department, who covered the Highway 21 new four-lane section in Jefferson County and Highway 185 through the middle of Meramec State Park in Franklin County, with luxurious and impenetrable stands of the exotic *Lespedeza cuneata* (*sericea lespedeza*).

The two following articles provided by Nels Holmberg:

GARDEN OF E-MAIL

The 250,000 volume library of the New York Botanical Garden in the Bronx has made its complete catalog available on the Internet. CATALPA, which stands for Catalog for Library Public Access and is also a genus name of the trumpet creeper family, is fully searchable by author, title, subject, call number, keywords, corporate entry, or contents notes. According to library officials, the garden is the first major botanical institution to make its entire library catalog available online. The library's Telnet address is librisc.nybg.org or 192.77.202.200.

ROOTFUEL

In 1985, Dr. Eugene Shultz, professor of engineering and applied science, discovered that sun-dried roots of the Mexican buffalo gourd plant (*Calabacilla loca*) burned cleaner and more efficiently than wood for cooking fuel. The root is produced more rapidly and in a smaller space than wood, and also is much more combustible, producing very little smoke. Rootfuel has been successfully tested in several Third World countries where deforestation and smoky food stoves are problems. Current efforts are concentrating on the Navajo Nation in Southwestern United States where smoke from wood, coal and dung fires cause respiratory problems, especially among women who do most of the food preparation. Plots of a closely related native species, *Cucurbita foetidissima*, have been planted on the Navajo reservation in New Mexico, and research of these roots as fuel is currently being conducted. (From an article in November 17, 1994 *Washington University in St. Louis* newspaper.)

Chapter News

Hawthorn (Columbia) — We have placed several money-making items in the gift shop at Jean Graebner's Christmas Tree Farm. To take advantage of the gift-buying season, we have for sale wreaths made by members from cedar boughs and a variety of dried seed pods and blossoms, custom-made soaps, decorative gift bags for the soap, books and lucky buckeyes.

Pam Haverland led wreath-making sessions on three different occasions to produce the decorations. They are also on sale at the Rocheport Old Time Gift Shop.

New officers for 1995:

President: George K. Brakhage
Vice-President: Pam Haverland
Secretary: Allen Thiher
Treasurer: Joann Whitley
Chapter Rep: Jean Graebner

Monthly Programs: October — Larry Mechlin presented a video plus a hands-on native grass identification session with samples he brought along. November — Rich Guyette shared his knowledge of dendrochronology (the study of dating trees by their growth rings and identifying important events in tree rings).

A special thanks to retiring President, Larry Mechlin.

Kansas City — We concluded our field trip schedule for the year with two trips in October. The first was to Ivan Boyd Prairie near Baldwin, Kansas. This is a remnant prairie set in the midst of plowed fields, across one side of which are ruts from countless wagons that traveled the Santa Fe Trail. Several species of *Spiranthes* orchids were found, as well as various asters and solidagos. The final trip was to the Weston Bend/Bluffwoods/Little Bean Marsh area, located between Kansas City and St. Joseph. Fall colors were in full glory at all three sites.

We were very fortunate to have Dr. James Waddick as our guest speaker for our November meeting. He is an expert on the iris of China, and has made several trips to that country. He spoke to us about the native plants of China, with an emphasis on the iris family (of course!). It was an exceptional talk on an extraordinary subject!

Our next meeting will be on January 18, 1995. It will be both the time of our annual elections and of our field trip planning for 1995. If anyone in the Kansas City area is interested in attending, please feel free to contact Dan Rice (816) 461-0206.

Ozark Showy — In September, several members went to southern Illinois to hold a training session for twenty-five volunteers on controlling exotics in Natural Areas.

St. Louis — Our September monthly meeting was a members' show-and-tell, with various members showing slides of the past year's activities. In October, Dr. Brien Meilleur, head of the Center for Plant Conservation, spoke on that group's efforts.

Scheduled field trips included visits to Greensfelder County Park, Valley View Glades, and Hickory Canyons. The Chapter also continued field work at Creve Coeur Lake, to analyze vegetation that may be impacted if the proposed Page Avenue extension is approved. We have also been active in compiling data from the field work and helping opponents of the highway project to communicate these findings.

Chapter members staffed a booth at the annual Systematics

Symposium at the Missouri Botanical Garden in October. Bannanas were a big success, and several new members registered as well. In December the Chapter will represent MONPS at an organizational meeting for the 1995 Naturescaping Symposium held at Powder Valley Conservation Nature Center.

Springfield — In October, John Heywood, Ph.D. from Southwest Missouri State University gave a presentation on his works with the hairy petunia. At the November meeting Stephen Timme, Ph.D. from Pittsburg State University, KS, gave a presentation on insects of the rainforest.

Our January meeting will be a planning meeting including election of officers for 1995.



Dues Reminder

Please help your Society by paying your 1995 Society and Chapter dues as soon as your schedule permits. Save us the expenses of reminding and soliciting your renewal. The dollars saved can be used to educate the public and promote the beneficial attributes of our native flora. We have made an extra effort to be sure that you receive the Society publications on schedule over the past several years so that you will be informed of events of interest to you. Your assistance is vital to the well being of our society! And Missouri native plants will appreciate your participation.

Mark Your 1995 Calendar

The date and place for Naturescaping-95 has been announced. The date is Saturday, 25 March 1995. The location will be at the Powder Valley Conservation Nature Center, Kirkwood, MO. An all new program is being planned. See the March-April *Petal Pusher* for more details.

Archives & Flora File

Reminder: Jim Bogler (Archivist, see address on last page) requests copies of pre-flood plant lists on areas that were flooded in 1993. This may be the only information that exists on some of these areas.

Please continue to send MONPS information of any kind for the archives. Jim requests that submitted folders or envelopes be labeled on the outside based on general contents, e.g., PHOTOS, PLANT LISTS, ADMINISTRATIVE FILES, TECHNICAL REPORTS, etc. Also on the back of photos, please describe subject matter, or identify individuals and date, as appropriate. Field notes from your botany outings are needed for the Flora File. The Flora File is now set up at the Missouri Botanical Garden and you may request information from the staff.

Wildlife Diversity Activities in Missouri

by Jack H. Harris
Environment Committee

The Missouri Department of Conservation's *WILDLIFE DIVERSITY REPORT: July 1993–June 1994* has some good news and some bad news for botanists interested in native species conservation. The good news is that the number of flowering plants listed in the “rare” and “watch-list” categories (see table) remained the same and the number of “extirpated” species declined by four (4). The bad news is that the number of endangered species increased by one, and the number of “status undetermined” increased by 20 (a mixed message because this may mean we are less ignorant than at this time last year) since the overall count was summarized the year before. And beyond this summary the MDC has several plant conservation, inventory, and restoration activities in progress.

A sampling of citations in the plants category reads like: *Trifolium stoloniferum* (running buffalo clover) was found alive and well (also see July–August 1994 *Petal Pusher*) for the first time since 1907 and 98 plots at 26 sites are part of a program to study the potential for re-recovery of this endangered species in Missouri. The federally threatened *Plantanthera praeclara* (western prairie fringed orchid) was resurveyed after being found last year in Harrison County. Fifteen plants were located, eleven more than last year. Habitat management that included prescribed burning is attributed as the possible trigger of increased species vigor; and *Bartonia virginica* was discovered at two sites in Ste. Genevieve County. This is a new species for Missouri. These and several more activities are listed in the report.

On a more inclusive scale the Missouri Natural Areas Program, which was formed to identify and preserve the best remaining examples of natural communities and geological features in the state has designated four new areas (there are now 166 different areas comprising 32,976 acres in the state system). The new areas are: (1) Star School Hill Prairie (70 acres) which is a dry loess hill prairie with very, very steep slopes and a unique variety of rare plant communities; (2) Bald Hill Glade (332 acres) is part of the largest dolomite glade complex in the lower Ozarks; (3) Stegall Mountain (5,387 acres) is the largest new

area and is made up of land areas owned by Department of Conservation (3,872 acres), National Park Service (555 acres), and The Nature Conservancy (960 acres) which comprise a major portion of the largest igneous glade complex in the lower Ozarks; and (4) Vilander Bluff (206 acres) on the Meramec River which many, many canoe float-trippers have passed on their way to enjoyment of our Missouri outdoors. Also 518 acres of land was purchased at four other Natural Areas to add buffers or expand the areas. Two other areas are currently under review, i.e., Carman Springs @ 2,810 acres and Tunnel Bluff Woods @ 288 acres.

The management of land/water areas, such as the Natural Areas Program, to achieve the conservation or preservation of plant or animal communities may be considered a step in the direction of achieving patchworks of biological integrity,¹ i.e., preserving conditions that are under little or no influence of human actions. Biological diversity is a process of arriving at natural value judgments about an area based primarily on the number of species or types of living critters found on an area. Biological integrity adds the dimension of life sustaining rates of interaction among all living and nonliving elements of an ecosystem. The concept is for each of the areas to be fundamentally self-regulating and self-sustaining as they originally evolved.

Missouri is fortunate in that the state is active in a variety of areas in the maintenance and restoration of biological diversity and biological integrity management. MONPS members are urged to maintain current knowledge of the policies and actions of our public land management agencies, to encourage and to actively support those that they believe are sufficient, and to work for change where appropriate. To find out about the status of these and many other activities affecting our native flora and wildlife, I recommend that you request a copy (no charge) of the *Wildlife Diversity Report July 1993–June 1994* by writing to Dennis Figg, Endangered Species Coordinator, Missouri Department of Conservation, P.O. Box 180, Jefferson City, MO 65102–0180.

¹ Biological Integrity versus Biological Diversity as Policy Directives by Angermeier, Paul and Karr, James R.; *BioScience* magazine, Vol. 44, No. 10, November 1994.

Year	Group	No. Native Species	E	R	WL	SU	EXT	Total
1994	Flowering Plants	2503	167	63	41	85	64	420
1993		2503	166	63	41	65	68	403
1992		2503	154	62	40	65	75	396
1994	Ferns & Fern Allies	97	11	4	2	4	1	22
1993		97	11	4	2	4	1	22
1992		97	10	4	2	3	1	20
1994	Bryophytes	400*	55	21	0	14	1	91
1993		400*	55	21	0	13	1	90
1992		400*	47	18	0	7	1	73

* = estimated

Where: E = endangered; R = rare; WL = watch list; SU = status undetermined; EXT = extirpated

MISSOURI NATIVE PLANT SOCIETY OFFICERS AND BOARD MEMBERS

PRESIDENT

Stephen L. Timme
T.M. Sperry Herbarium
Dept. of Biology
Pittsburg State Univ.
Pittsburg, KS 66762
316-235-4740 (w)

VICE-PRESIDENT

Jack Harris
9708 Green Park Rd.
St. Louis, MO 63123
314-894-9021

SECRETARY

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

TREASURER

Jody Eberly
Rt. 2, Box 2740
Mtn. View, MO 65548
417-934-2759

IMMEDIATE PAST PRESIDENT

Karen Haller
618 Spring Meadows Dr.
Ballwin, MO 63011
314-227-5693

BOARD MEMBERS

Richard Datema ('93-96)
Route 7, Box 411
Springfield, MO 65802
417-862-9727

Sue Hollis ('92-95)
3311 Gillham Rd.
Kansas City, MO 64109
816-561-9419

Larry Morrison ('93-96)
110 Virginia Ave.
O'Fallon, IL 62269-2446
618-624-5964

Lynda Richards ('94-97)
HCR 35, Box 263
Rolla, MO 65401-8604
314-341-7433 (w)

Karen Yates ('92-95)
417 Fieldcrest
Pittsburg, KS 66762
316-231-8143

Tim Smith ('94-97)
1704 W. Main
Jefferson City, MO 65109
314-635-8085 (h)

ARCHIVES

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

ENV. AND EDUC.

Jack H. Harris
9708 Green Park Rd.
St. Louis, MO 63123
314-894-9021

FIELD TRIPS

Alan Ross
Sperry Herbarium
Pittsburg State Univ.
Pittsburg, KS 66762
316-235-4867 (w)

MEMBERSHIP

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

PUBLICITY

Nels Holmberg
7672 Whiskey Creek Rd.
Washington, MO 63090
314-583-4551

EDITORIAL COMM.

David Castaner
Sylvia Forbes
Donna Ford
Paul Redfean
Joanna Turner

MO FLORA ATLAS, ED.

Wallace Weber
Dept. of Biology
Southwest MO State Univ.
Springfield, MO 65804
417-836-5883 (w)

MISSOURIENSIS, CO-EDITORS

George Yatskievych
MO Botanical Garden
P.O. Box 299
St. Louis, MO 63166
314-577-9522 (w)

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

PETAL PUSHER, CO-EDITORS

Carl Darigo
553 Mapleview
University City, MO 63130
314-863-7057

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

CHAPTER REPRESENTATIVES

COLUMBIA
Jean Graebner
1800 S. Roby Farm Rd.
Rocheport, MO 65279
314-698-2855

JEFFERSON CITY
Ann Grotjan
RR 2 Box 2894
California, MO 65018
314-796-4478

KANSAS CITY
Daniel Rice
815 W. 31st St.
Independence, MO 64055
816-461-0206

KIRKSVILLE
Donna Ford
Science Division
NEMO State University
Kirksville, MO 63501
816-785-4623 (w)

OZARK SHOWY
Jody Eberly
Rt. 2, Box 2740
Mtn. View, MO 65548
417-934-2759

ST. LOUIS
George Yatskievych
MO Botanical Garden
P.O. Box 299
St. Louis, MO 63166
314-577-9522 (w)

SPRINGFIELD
Richard Datema
Route 7, Box 411
Springfield, MO 65802
417-862-9727

INFORMATION ON JOINING MISSOURI NATIVE PLANT SOCIETY

SOCIETY DUES

(Chapter dues additional)

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

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Rt. 2, Box 2740, Mountain View, MO 65548

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Missouri Native Plant Society

P.O. Box 20073

St. Louis, MO 63144-0073

INSIDE THIS ISSUE

- By-Laws
- Requests for nominees
Awards
Board Members
- 1995 Quarterly Board Meeting Dates

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