

Pat Harris

900213



# PETAL PUSHER

The Newsletter of the Missouri Native Plant Society

Volume 5, Number 1

Jan. - Feb. 1990

## CALENDAR OF EVENTS

Monday, Feb 12  
7:30 pm, Columbia

Dr. Steven Pallardy, UMC professor in the School of Natural Resources, will speak on **Recent Changes in Missouri's Forests**, at the monthly meeting of the Hawthorn Chapter, to be held at Farm & Home Savings.

Saturday, Feb 17  
Columbia

**Wildflower Propagation Workshops**, taught by Merv Wallace, at the Columbia Area Career Center. Two 2-hour workshops are offered, at 9:30 am and 1:30 pm. Pre-registration is required, by calling 314-446-0222.

Thursday, Feb 22  
7 pm, Springfield

Dr. Steve L. Timme, assistant professor at Pittsburg State University in Kansas, will speak on **Mississippi Wildflowers**, at the Springfield monthly meeting at the Springfield Nature Center.

Thursday, Feb 22  
7:30 pm, St. Louis

John Oliver, chemistry teacher at Lindberg High School, will give a program on **Poisonous Plants**, at the monthly meeting of the St. Louis chapter, to be held at the Ridgeway Center of the Missouri Botanical Garden.

Saturday, Mar 3  
9 am, St. Louis

The St. Louis chapter will hold a **work session**, for developing their educational slide show series. Meeting will be held at the Ridgeway Center of the Missouri Botanical Garden.

Thursday, Mar 22  
7 pm, Springfield

Janet Hicks, M.S. in botany from SMSU, will present **Vegetation of Hercules Glade Wilderness Area**, at the monthly meeting of the Springfield chapter, at the Springfield Nature Center.

Monday, Mar 26  
7:30 pm, Columbia

Dr. Ray Rothenberger, UMC horticulture professor and popular newspaper columnist on gardening, will present a program on **Growing Native Plants** at the monthly meeting of the Hawthorn Chapter, to be held at Broadway Christian Church.

Saturday, Mar 31  
1:00 pm, Columbia

**Nature hike** to see the early Spring Wildflowers at Wildhaven. Call 314-446-0222 for information on where to meet.

Thursday, Apr 5  
5:30 pm, Columbia

**Spring Wildflower Walk** at Hinkson Nature Conservancy Area. Meet at the driveway of Dr. William Elder, 2105 Rock Quarry Rd.

Weekend, Apr 6-8  
Camdenton

**Spring Board Meeting** of the Missouri Native Plant Society, at the Lake of the Ozarks area. Friday evening program, Saturday field trips, evening board meeting, and Sunday field trip. See this issue for details.

Monday, Apr 9  
7:30 pm, Columbia

Paul Nelson will speak at the **monthly meeting** of the Hawthorn Chapter, to be held at the Broadway Christian Church.

Tuesday, Apr 10

**Arbor Day**

Thursday, Apr 12  
5:30 pm, Columbia

**Spring Wildflower Hike** at Rockbridge State Park. Meet at the Devil's Icebox parking area.

Monday, Apr 16  
7 pm, Columbia

**Wildflower Identification Workshop**, taught by Dr. Robin Kennedy, UMC instructor. Meet at the herbarium of Tucker Hall, on campus.

April 22 - 28

**Earth Week.** Springfield chapter will be doing plantings at the Springfield Nature Center, and will hold wildflower hikes. Call Tim Smith at 417-866-2107. The Columbia chapter will lead a field trip on April 28th to Graham Cave State Park. Call 314-446-0222.

### MARK YOUR CALENDARS FOR 1990 BOARD MEETINGS

The following dates have been set for the quarterly MONPS board meetings for 1990. All members are invited to attend the board meetings, as well as the field trips which are scheduled in conjunction with the meetings. The June meeting will also be the annual meeting of the MONPS.

April 7-8:	HaHaTonka State Park (Ozark area)	Theme is savannas
June 16-17:	Kansas City area (Annual mtg)	Theme is prairies
Sept 15-16:	Winona, Shannon Co, Tupelo	Theme is sinkholes
Dec 8th:	Rolla	no field trips

### WE'RE LOOKING FOR A FEW GOOD PEOPLE

The state board of the Missouri Native Plant Society is currently looking for people to fill two positions. If you are interested, please contact Bill Summers, at 314-843-0862.

**Membership Coordinator** - to help with keeping membership records updated, help print the membership brochure, keep dues information, and provide chapters with membership information.

**Slide Coordinator** - to help store and label our slide collection, which will be for use by all chapters wanting to create slide shows, or wanting to find slides of particular plants and places. This person would also coordinate slide requests, and sending of slides to people.

## BOTANICAL CUPIDITY AND STUPIDITY

by Edgar Denison

Dr. George Engelmann was a busy doctor in St. Louis. He came from Germany and settled here in 1840. His fame is based on his extensive and thorough studies of plants, an interest he shared with many of his colleagues. When Henry Shaw decided to create a major garden, Engelmann became his advisor. The well-established recognition of today's Missouri Botanical Garden has its roots in the Doctor's ideas. His vast correspondence with botanists in Europe and America was mostly written in old German script. I translated his letters during the last three years. This article is about his correspondence with Dr. C. H. Schultz.

Dr. C.H. Schultz signed his letters with "Bipontius" after his name, the Latin translation for Zweibrücken, where he was born. His chosen botanical field was the large family of Compositae, which may have 25,000 species worldwide. His letters span the decade of the 1840's - a period when much of the botanical world had not been explored. Like all the other botanical students of his time, he was ordering and systematizing the material on hand to establish subfamilies, tribes, genera and species. At that time there were many yet unknown species. Almost every letter of these times is a request by every writer for specimens and more specimens.

Dr. Schultz did his begging with such a total lack of restraint and modesty that he became ridiculous if not obnoxious. He wrote to Dr. Engelmann, "based on our friendship I expect you to send me all the Compositae of the United States." In other letters he enlarged this modest request to North America, and finally, the Americas! There is an old German saying: "Not a fool, who asks for something, but a fool who carries out a request." Today we count about 2,650 species of composites North of the Mexican border. But, Schultz not only wanted all the composites, he also gave detailed instructions how the plants were to be collected, marked, pressed, and how many he needed. "Of the larger plants 100 each, of the smaller ones 200 specimens." Assuming that about 1/3 of the composites are "larger" and 2/3 "smaller," that would add up to around 440,000 specimens! He required that all specimens have the entire root system attached. Imagine digging up prairie dwellers, such as some Helianthus and Silphium species, with root systems longer than the part above ground, from 6-8 feet below the surface. If plants were not in flower when collected, he requested flowerheads to be provided separately and enclosed. Dr. Schultz did not, of course, need those 100 or 200 specimens for his studies. They were looted to be exchanged with other botanists. In a later letter he became almost modest; he asked for for only 125 specimens of each species.

Unfortunately, this type of plant raping went on through all of the 19th century and continued well into the 20th. Nobody thought about "rare and endangered" plants, and greedy botanists and collectors have done much damage. Even today there are botanists to whom a plant between two sheets of paper is worth more than a living endangered one.

Dr. Schultz gave free council as to how Dr. Engelmann could provide him with all the composites he requested. He suggested that Dr. Engelmann hire "a young apothecary or another young person." (Ed: sounds like the graduate student of today!) He reported that he had trained his coachman to perfection on how to dig specimens. Finally, he referred to Dr. Engelmann's brother, Theodor, whom, I believe, worked as a chemist or metallurgist for a tin smelter in Illinois. That brother was a patient of Dr. Schultz many years earlier in Munich, and was then told that he needed exercise badly, and should go out and get his exercise by collecting plants for Dr. Schultz. Schultz did not hesitate to get his composites by hook or by crook. And so he suggested, that whenever Dr. Engelmann bought herbarium collections (for Mr. Shaw's garden) he should send the composites to him ... a strange idea, indeed.

Distances in the U.S. were to him, as to most Europeans, inconceivable. Dr. Schultz had someone lined up to collect for him in Pennsylvania. He advised Dr. Engelmann to restrict his collecting, at least at first, to the St. Louis area so as not to come in conflict with the man in Reading ... and this in the days of transportation by horse or the early railroads.

Most letters from Dr. Schultz end with "have the kindness to answer this letter immediately," a request which Dr. Engelmann seemed to have overlooked. In Dr. Engelmann's vast correspondence almost every letter is marked with the date received and answered, but over one half of the letters of Dr. Schultz show no date of answer. Were they answered? We may wonder.

The final salutation was always "Do not forget your friend." For all this gigantic request Dr. Schultz promised again and again a copy of a book he was writing on the Ligulaceae, the strap-bloomers (like the dandelion), a subfamily of the Compositae. But the book was not published in the 1840 decade. Was it ever?



## MONPS SPRING BOARD MEETING AND FIELD TRIP

### Glades and Savannas of Lake Ozark Region

The Spring board meeting and field trip will be held at the Lake of the Ozarks, April 6-8th, 1990. Field trips will focus on the glades and savannas of HaHaTonka and Lake Ozark State Parks. An active management program to restore these unique natural communities is underway. On Friday night, a program will explore these communities and their management. MONPS members can look forward to field trips on Saturday, to several nearby areas. In addition, a guided tour through Ozark Caverns and a trip to Coakley Hollow Fen will be scheduled for Sunday.

Accommodations have been held at Adam's Ale Resort, located off Highway 54 near Camdenton. The resort has 1 and 2 bedroom units, some with kitchen facilities. There is also a pub, recreation room, and boat dock. You can cook yourself or eat at nearby restaurants. Let's all try to stay at the same place! Pool together and get a larger unit to save money.

**You must make reservations by February 23rd.**

Contact: Adam's Ale Resort 314-346-3690  
Rt. 70, Box 539  
Camdenton, MO 65020

*\$35 + tax*

**Directions** (to Adam's Ale Resort): Take Highway 54 West from Camdenton 4 miles; cross the Niangua Arm bridge; look for Lake Road 54-80; turn right, and continue to Adam's Ale Resort.

### Schedule

Friday, Apr 6  
8 pm Program on glades and savannas of the Lake Ozark Region. Held at the MO Dept of Conservation office, Camdenton (314-345-2210).

Saturday, Apr 7  
9 am Meet at Adam's Ale Resort  
9am - 5 pm Field trips to glades and savannas (Bring a sack Lunch)  
5:30 - 7:15 pm BBQ at Adams Ale Resort  
7:30 pm Board Meeting (location to be determined)

Sunday, Apr 8  
10 am Meet at Adam's Ale Resort  
10am - 2pm Field Trip to Ozark Caverns & Coakley Hollow Fen (Bring Sack Lunch)



## ANNUAL MEETING

The Annual Meeting of MONPS will be held at Stockton Lake State Park, the weekend of June 16-18, 1990. Programs and field trips will be scheduled throughout the weekend, and will focus on Prairies.

Accommodations have been held at the Stockton State Park Marina. One-Bedroom units and four brand new duplexes which will sleep 6 are available. Pool together and take advantage of these nice duplexes.

**You must make reservations by February 23rd.**

Contact: Gail Hufferd 417-276-5329  
Stockton State Park Marina  
P.O. Box 218  
Stockton, MO 65785

More details about the program will be in the April newsletter.

## BOTANICAL BOOK REVIEW

by Sylvia Forbes

### BOTANY FOR ALL AGES: Discovering Nature Through Activities Using Plants

Nature enthusiasts should take time to discover this delightful book written by Jorie Hunken and The New England Wildflower Society, published in 1989. The book contains 126 projects and experiments, with numerous additional ideas, for exploring, observing, understanding and interrelating with nature. While the book is great for anyone wanting to find activities in which to learn about botany, it is an especially good nature resource for teachers, providing many methods for learning, both indoors and outdoors, using active and passive investigations techniques, and includes both scientific and artistic activities. One does not need to be an expert botanist to use this book. The author explains how to do each activity, as well as giving background information on what should be happening, and why. The teacher can explore and learn along with the student.

The activities described are quite varied, and cover a variety of aspects of botany, including naming of plants, growth, ecology, plant uses, seasonal changes, plant parts and their functions, and plants as they relate to humans, animals, and the environment. The nature projects/experiments can be for children or adults, and many would be enjoyable if used in conjunction with Native Plant Society meetings or field trips.

Some examples of the activities in the book include: creating an imaginary plant to fit a special environment, determining the plant components of a bird's nest, looking at how plants can be indicators of roadside pollution, determining the ages of trees using twigs or wood, having a wilting contest, measuring the gas produced from leaves, making leaf skeletons, making a pinecone rain meter, making a bloom calendar, and playing a game which helps teach plant characteristics. Some of these activities are ongoing, through one season or more, and some only take a few minutes. One advantage of the book is being able to pick from a variety of activities to fit the time, place, materials available, and situation.

I highly recommend this book to all nature enthusiasts, especially those who lead hikes or give nature programs. This book should give people lots of great ideas (beyond the commonly used leaf rubbing and mushroom spore print activities) on how to help people experience, investigate and enjoy nature with all their senses. Publisher: The Globe Pequot Press (800-243-0495), cost \$11.95 (paperback, 160 pages).

### THE PRESIDENT'S COLUMN

by Bill Summers

In deciding the topic for this column, several ideas came to mind. Then I read an article in a newspaper from southern Missouri that caught my attention. It was titled "Rare Plants Rarely Get the Saving Grace of the Law." It began by stating that killing endangered animals can mean prison, but land owners may with impunity pluck or bulldoze the last specimen of the rarest plant on earth.

Federal and state agencies keep lists of hundreds of endangered plants and animals. Many more laws have been enacted to prohibit molesting or destroying dens, nests of animals, and the animals themselves, than have been enacted to protect plants and habitats. There are few laws that regulate use, digging up, and destruction of plants on public lands, and theft or sale of rare plants.

The lack of concern for our flora is ironic, since plants have historically been more useful than animals. Plants provide most of our food, medicine, shelter, clothing, and scores of other useful substances. Large amounts of federal funds have been spent on restoring rare animals, including birds. Very little federal funding has been used for plant restoration in comparison. Is there more pleasure in seeing a great majestic bird soaring in the wind than a beautiful flowering plant swaying in the breeze? I think not. I think that if one rare plant was selected, and publicized like the Bald Eagle has been, then the general public today would be more concerned about the plant world, including unique species, and critical habitats. It is not that we need less concern about the animals, but rather that we need more people to be concerned about plants as well.

We as members of the Missouri Native Plant Society can help this cause. Be thinking of ideas that will be helpful, and bring them to the April Board Meeting.



### BE AWARE OF THE RARE FOR 1990!

There are many rare plants in Missouri. In some instances we have only historic data on them. Some are regarded as possibly extirpated. Local chapters or individuals who are from the areas where these plants were last known should make a special effort to adopt a couple and look for them. It can be on an individual basis, or organized field trips.

### THE TEN MOST WANTED

1. Calamagrostis insperata Swallen  
Reed Bent Grass.  
  
Inhabits rocky ravine slopes and grassy rocky slopes of bluffs in Ozark and Douglas Counties.
2. Cypripedium candidum Muhl.  
Small White Lady-Slipper Orchid  
  
Last recorded from Nodaway County. Historically known from four other counties.
3. Plantanthera leucophaea (Nutt.) Lindl.  
Eastern Prairie Fringed Orchid  
  
Grows primarily in wet meadows and calcareous fens in a few counties of eastern Missouri although it has not been found in several years.
4. Isotria medeoloides (Pursh) Raf.  
Small Whorled Pogonia Orchid  
  
Historically known from a wooded limestone hill near Glen Allen, Mo. in Bolinger County.
5. Spiraea tomentosa L. var. rosea (Raf.) Fern.  
Hardback, Steeple Bush  
  
Historically known from moist, acid soil on a ridge in Dunklin County.
6. Neviusia alabamensis A. Gray  
Snow Wreath  
  
Known from a sandy loam bank above a creek in Butler County.
7. Trifolium stoloniferum Eat.  
Running Buffalo Clover  
  
Occurs in open woodlands and prairies in Wayne, Jasper, St. Louis, and Boone Counties.
8. Menyanthes trifoliata L. var. minor Raf.  
Buckbean or Bogbean  
  
Historically recorded from calcareous bogs in Reynolds County.
9. Castilleja purpurea (Nutt.) G. Don  
Purple Painted Cup, Paint Brush  
  
Historically known from rocky open ground in Greene County near Fantastic Caverns.
10. Echinacea angustifolia DC.  
Coneflower  
  
Occurs in prairies in Shelby County.

There are other rare plants that would warrant being on this list. Selecting these does give one an objective for 1990. Let's see if we can find some of them.



Summary of the Minutes of the September 30, 1989 Board Meeting  
Springfield, Missouri

**Publications.**

Linda Ellis will be resigning as newsletter editor in December. Sylvia Forbes will be the new newsletter editor. Bill Summers asked people to send any past information on MONPS to Sue Taylor, for the archives.

Paul Redfearn announced that Volume 10, Issue Number 1 of Missouriensis is at the printer, and will be mailed next week. He plans to have the next issue by December, and then be current on publications. He will be changing the setup of the Missouri Botanical Record. He would like to receive more articles, have a balance of technical and popular articles, to include anecdotal stories, to print historical stories about Missouri botanists, and illustrations, and have 60 pages in each issue. Wallace Weber and George Yatskievych have been some of the reviewers, and he has appreciated their help.

Redfearn expressed concern that minutes of board meetings were to be published in Missouriensis, but weren't. Bill Summers, asked the secretary to summarize the minutes for publication in the Petal Pusher instead of Missouriensis, starting with the minutes of this meeting. The full minutes will be sent only to board members.

There was a suggestion to xerox MONPS application forms (for use at fairs, etc.), rather than giving out our expensive printed brochure. It was suggested that we make a generic form so that each chapter could add their local contact and dues on the sheet. Bill Summers will coordinate the application.

Sylvia Forbes had a request from another nature organization to trade mailing lists. The decision was made not to give out our mailing list to anyone, commercial or not-for-profit.

Sylvia asked if chapters are or would like to trade newsletters. It was decided that chapters should send their newsletter to the newsletter editor of the other chapters. Chapters should send the name, address, and phone number of the newsletter editor to Sylvia, and she will send this information out to all chapters.

**Programs.**

Bill Summers discussed Recovery 2000, a program by the USFW which supports restoration of 28 species in the Midwest (14 of these are in MO) by the year 2000. Region 3 (Midwest) successfully lobbied for funding from Congress for a 10-year project for this year's budget. Ginny Wallace said the Natural History Section of MDC redrafting the native plant legislation, including permit regulations, in the next 2-3 weeks, which will eventually go out for review.

Tomenthera auriculata. Ginny stated that someone is looking for this plant. Of 50 previously listed sites, they have only reconfirmed 6 sites, though the one in Taberville has about 2000 plants.

Highway Department. Ginny stated that a year ago the highway and transportation department put together a task force for vegetation along highway right-of-ways. They are almost done with their recommendations. It will soon be going out for review.

Bill Summers strongly endorsed the adopt-a-highway program, and suggested that each chapter should get involved, because it is helpful to the environment, and also good publicity. He said they furnish trash bags and safety vests. Paul Redfearn suggested that we ask the Highway Department to make smaller signs for this program.

Bill Summers discussed the possibility of creating a slide bank for MONPS. Slides could be used by any member of chapters for presentations. Ginny suggested that we try to find a person in MONPS who would have a place to store the slides, and is a photographer. It was suggested that we put an announcement in the Petal Pusher for a person to curate the slides, or ask someone specifically.

Jody Eberly has received two bags of seeds for seeding by the highway department. The highway department will be doing some seeding this fall, and will finish in summer of 1990. She will send out an announcement in the newsletter as seeding nears completion, to lead a field trip to do some extra seeding.

**Elections.**

Jody Eberly nominated Larry Houf, the District Land Management Supervisor in the West Plains District, of the Wildlife Section of the Missouri Department of Conservation. The board elected Larry as the new board member. Bill Summers is looking for a field trip coordinator, and will be calling several people to offer them the position.

Bill Summers suggested that we have one slate of officers for elections. He said this would require amending the bylaws, and decided to table this issue till the December meeting. Other areas of the bylaws may need revision as well. Ginny suggested that a committee be appointed to look at the bylaws. Ginny and Ken McCarty have copies of the bylaws.

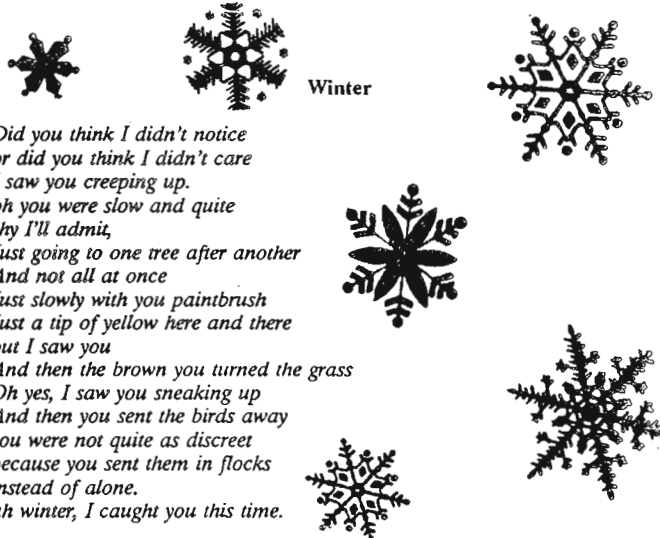
**Fundraising.**

Ginny Wallace said that there was no plan to do sales of pins by mail, but she has gotten several orders. She suggested that it be put in the Petal Pusher that pins are only available by mail to areas where they don't have a chapter. It was decided that we would not add mailing charges. Ginny will check to see if someone in the Jefferson City chapter would be responsible for mailing out pins. Chapters should contact Ginny for pins. Linda Ellis said that they are in their 3rd printing of T-shirts. She needs orders of at least a dozen for each printing to keep costs down.

**Other Business.**

Presentation by Dan Lehocky on the Natural Streams Act. Lehocky handed out information and gave a presentation on the Natural Streams Act. He asked MONPS for official endorsement of this program. After the presentation, general discussion by the board agreed that this was a big concern, but that everyone needed time to read the actual Act. Ginny Wallace and Jody Eberly felt that we need to present this information to our membership, so that we can get their opinions and better represent their feelings. Bill Summers decided to table this issue, and to discuss at the next meeting.

Bill Summers thanked the Springfield Chapter for a good job in setting up the meeting, for the refreshments, and for sponsoring the field trips. Bill tentatively set the next state board meeting for Saturday, December 9th, 1989, at 10 a.m. at the Missouri Department of Conservation Headquarters in Jefferson City. Ginny will check on reserving a room for the meeting. The meeting was adjourned at 10:00 p.m.



*Did you think I didn't notice  
or did you think I didn't care  
I saw you creeping up,  
oh you were slow and quite  
shy I'll admit,  
Just going to one tree after another  
And not all at once  
Just slowly with you paintbrush  
Just a tip of yellow here and there  
but I saw you  
And then the brown you turned the grass  
Oh yes, I saw you sneaking up  
And then you sent the birds away  
you were not quite as discreet  
because you sent them in flocks  
instead of alone.  
ah winter, I caught you this time.*

Cindy Wagner

**NOTE FROM THE EDITOR**

This issue begins my tenure as editor of what I hope will be an enjoyable medley of botanical information on Missouri's native plants and natural environment. I would appreciate all comments you have on format, content, and what YOU would like to see in this newsletter. The deadline is the 10th of the odd numbered months, for that bimonthly issue. For the next issue, please send in your tastiest recipes for Spring greens, including any special collecting/storage methods. I'd also like to receive your most effective, as well as your most unusual methods for curing poison ivy. This is YOUR newsletter, so please participate by sending in interesting botanical information for the rest of our Society to enjoy.

Sylvia Forbes, editor



Summary of the Minutes of the December 9, 1989 Board Meeting  
Columbia, Missouri

**Treasurer's Report.** Mervin Wallace, previous treasurer, stated that there was a discrepancy between the bank statement and our treasury records. He spent much time, and found three errors. These have been corrected so that now the statements are in agreement. Merv handed out a sheet which explained the errors, and also showed our recent income and disbursements. He reported a balance (as of 12-7-89) of \$4,372.00. George Yatskievych moved, and Karen Haller seconded, to approve the report as submitted. Motion carried.

**Committee Reports.**

**Membership Committee.** Ginny Wallace stated that due to a new position as Interpretive Program Supervisor at the Department of Conservation and her new job responsibilities, she will be unable to continue as membership committee chairman. This also includes resigning her responsibilities for the Petal Pusher. The board recognized Ginny for all her contributions to the Society over the past years.

**Newsletter.** Sylvia Forbes will be the new newsletter editor. She would like to include a variety of topics each time, always including Society news and events, but also including Ecology, Ethnobotany, Nature Education, Conservation, and other plant related topics. All items such as articles, announcements of events, news, recipes, educational games, summaries of events, officer elections, suggestions for book reviews (or written book reviews), etc. should be sent to her.

Ginny stated some general guidelines that had been established for publishing the newsletter. The 10th of the preceding month is the deadline for information. They strive for the newsletter to arrive in the mail the first week of the second month (of the bimonthly issue). She said that it usually takes 1 1/2 weeks to be printed and mailed. Chapter activities should be sent for the second month, and the following month (i.e. activities for Feb and March should be put in the Jan-Feb issue).

**Editorial Committee.** Atlas - Wally Weber has been working on getting plant records together, and hopes to get a preliminary issue of the atlas printed next year. Bill suggested that if anyone has information from herbarium specimens they should get this information to Wally.

**Missouriensis** - Paul Redfearn stated that he has the next volume of Missouriensis ready to go out, pending review.

**Field Trips.** Tim Nigh has accepted the appointment for field trip chairman for the quarterly meetings. Tim was enthusiastic and suggested that we might have themes for the field trips. It was explained that we usually have the board meetings at 7:30 p.m. on Saturday night, and try to plan 1-2 field trips on Saturday, and a morning field trip on Sunday. If members arrive early on Friday evening, there is sometimes a Friday evening activity planned at 8 or 8:30 p.m. Tim will be responsible for coordinating the whole weekend, including finding nearby motels where people can stay.

The board established the quarterly meeting dates and tentative locations for 1990. These plans include:

April 7-8:	HaHaTonka State Park (Ozark area)	Theme is savannas
June 16-17:	Kansas City area (Annual mtg)	Theme is prairies
Sept 15-16:	Winona, Shannon Co, Tupelo	Theme is sinkholes
Dec 8th:	Rolla	no field trips

Sue Hollis suggested that we set up general guidelines for setting up field trips, so that future field trip chairmen will know what their duties are.

**Old Business**

**Natural Streams Act.** Dan Lehocky reviewed the purpose of the Natural Streams Act, and answered questions from the Board. He asked the board to endorse this Act. The board was in agreement that something needs to be done about the condition of the streams, but were divided on if this particular Act is the way to address the problem. A motion carried, with a divided vote, to support the Act. It was decided that Bill Summers will write the letter, but the letter should not be specific on how much or what kind of support the Native Plant Society will provide.

**Pins and T-shirts.** George Yatskievych reported that Linda Ellis has decided that she will not be screening any more T-shirts. Their chapter would like to start on a different project.

Ginny stated that there are still about 300 pins for sale.

**Grants.** Several people expressed an interest in applying for grants. It was decided that all chapters should coordinate grants through Bill Summers.

**Membership Brochure.** It was discussed again that the Society should create a one-page membership brochure, with portions left blank for each chapter to fill in, that would be cheaper to hand out than the printed brochure. This would be used at events having large numbers of people stopping by the Native Plant Society table or booth.

**Seeds for Highway Planting.** The Highway department would like seeds to plant Highway 60 East of Winona. Send seeds to Jody Eberly.

**Adopt-a-Highway.** The St. Louis chapter has decided not to do this project. The Kansas City chapter said that they do not have the manpower for this project. Springfield has decided to wait on this until they have finished the Nature Center plantings.

Merv said that it is possible to do plantings on new construction, and that you can get good establishment. Those interested should ask him for details.

Ginny, has been part of a Highway task force, which calls for hiring a botanist to develop a native vegetation program to plant native grasses and wildflowers on all new construction, and in cases where the right-of-way has been disturbed. It looks like the Highway department may adopt this plan. She said that the person who decides on seed mixes has not chosen crown vetch (Coronilla varia) or Lespedeza sericea in almost a year.

**Amending the Bylaws.** Sue Hollis, Gary Shackelford and Louise Wienckowski were appointed to a committee to look for and recommend needed changes in the bylaws, including the adoption of one slate of officers for nominations. Sue asked the whole board to reread the bylaws and send suggestions to the committee. It was recommended that we publish the bylaws in the newsletter after they have been changed.

**Pro-rated Dues.** There was controversy on this issue. It was decided that if dues are sent after June 30th, a person will get membership for the rest of that year AND the following year. If dues are sent before June 30th, the membership will be for the current year only.

**New Business**

**Membership Chairman.** Bill stated that we need to appoint a new membership chairman. This person needs to be in close contact with the Treasurer. Ginny suggested that since most of the mail in the Society's mailbox is for the Treasurer, it would be most logical for the treasurer to pick up the mail, on a weekly or more often schedule. Also, the Treasurer is currently located in Jefferson City, where the bulk mail mailbox is registered. There was discussion on the possibility of moving the mailbox. It was stated that while it is possible, it is very expensive, and all membership brochures have that mailing address.

There was discussion of the duties of membership chairman. This person could design the one-page membership flyer, plan membership drives, to be a liaison to chapters, help new areas to start chapters, answer inquiries, let chapters know about events at which they could set up booths, and other activities to promote membership. It was suggested that we ask for volunteers for this position in the next newsletter.

It was decided that the nominating committee should take over responsibilities of the awards plaque.

**Environment/Education Committee.** There was discussion on whether we should eliminate this position, since it has been inactive. George stated that this committee was given the responsibility for determining how to use money designated for the Conservation Federation. We need to make a decision on where this should be redirected, if this committee is eliminated.

It was felt that we need a person to chair this committee who will bring up relevant issues for the board to address. This committee should prod the Society to get involved in various ways in some of the environmental issues which the Society hears about but doesn't really act upon, and be the "conscience" of the Society. They should motivate the Society on specific environmental issues, because these are topics that the board really doesn't address. The committee will have use initiative in identifying issues that the Society should work on.

It was suggested that EVERYONE make a list of duties they feel this committee chairman should have, and send these to Bill within the next few weeks. Bill will take these suggestions and draft a description of the duties of the position. It was suggested that we go over old minutes to find what some of the previous duties were.

**Announcements.**

**The state Treasurer needs names and addresses of chapter treasurers as soon as possible.**

Wally Weber suggested that we put out a display at the Missouri Botanical Garden annual systematics symposium in Fall.



1989-91 OFFICERS AND BOARD MEMBERS  
MISSOURI NATIVE PLANT SOCIETY

**OFFICERS**

**President**

Bill Summers  
P.O. Box 6975  
St. Louis, MO  
(314) 843-0862

**Vice President**

Karen Haller  
618 Spring Meadow Dr.  
Ballwin, MO 63011  
(314) 277-5693

**Secretary**

Sylvia Forbes  
4482 Southview Dr.  
Columbia, MO 65203  
(314) 446-0222

**Treasurer**

Ken McCarty  
Mo Dept. of Natural Resources  
P.O. Box 176  
Jefferson City, MO 65102  
(314) 751-2479

**Immediate Past President**

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

**Archives**

Sue Taylor  
Missouri Botanical Garden  
P.O. Box 299  
St. Louis, MO 63166  
(314) 577-5169

**Field Trips**

Tim Nigh

*No*  
*12*  
*9 quorum*

**BOARD MEMBERS**

Jody Eberly  
Rt. 2, Box 181  
Mountain View, MO 65548  
(417) 934-2759

Linda Ellis  
911 West 48th St., #105  
Kansas City, MO 64112  
(816) 472-0277

Larry Houf  
Rt. 2, Box 181  
Mountain View, MO 65548  
(417) 934-2759

Joanna Turner  
166 N. Brentwood  
St. Louis, MO 63195  
(314) 727-9029

Louise Wienckowski  
1423 N. Summit Ave.  
Springfield, MO 65802  
(417) 869-8074

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

**Editor, Missouri**

**Botanical Record**  
Paul L. Redfearn, Jr.  
Dept. of Biology  
SW MO State University  
Springfield, MO 65804  
(417) 836-5882

**Editorial Committee**

David Castaner      Doug Ladd  
Nancy Morin        George Yatskievych

**CHAPTER REPRESENTATIVES**

**Columbia**

Tim Nigh  
MO Dept of Conservation  
P.O. Box 180  
Jefferson City, MO 65102-0189  
(314) 442-2768

*Mattha Folk*

**Jefferson City**

Herbert Domke  
Rt. 2, Box 477  
New Bloomfield, MO 65063  
(314) 295-4220

**Kansas City**

Sue Hollis  
3311 Gilham Rd.  
Kansas City, MO 64109  
(816) 561-9419

**Kirkville**

Melvin Conrad  
Dept. of Biology  
NW MO State University  
Kirkville, MO 63501  
(816) 785-4623

**St. Louis**

Gary Shackelford  
13 Scarsdale  
St. Louis, MO 63117  
(314) 997-2038

**Springfield**

Wallace R. Weber  
Dept. of Biology  
SW MO State University  
Springfield, MO 65804  
(417) 836-5883

**Editor, Petal Pusher**

Sylvia Forbes

Missouri Native Plant Society  
P.O. Box 6612  
Jefferson City, MO 65102

Non-Profit Organization  
U.S. Postage  
**PAID**  
Jefferson City, MO  
Permit No. 352

Patricia Harris  
9708 Green Park Rd.  
St. Louis, MO 63123