

March - April 2004

Vol. 19, No. 2

Missouri Native Plant Society

March

- 8** Mon., 7:00 PM Columbia **Reminiscences of an Amateur Botanizer** presented by Bill Clark. Regular Hawthorn Chapter Meeting held at the Unitarian Church at 2615 Shepard Blvd.
- 10** Wed., 7:30 PM St. Louis **{Special Date}** **How to Create a Bird and Butterfly Garden** presented by nationally known photographers and writers Richard and Susan Day. Susan will bring copies of her book *The Wildlife Gardener's Guide to Hummingbirds and Songbirds from the Tropics* to sell and autograph. Joint meeting with the North American Butterfly Association held at Powder Valley Conservation Nature Center, 11715 Cragwold Road, Kirkwood (off Geyer Road, between Watson and Big Bend).
- 15** Mon., 7:00 PM Clinton **Growing a Prairie in Your Back Yard** presented by Wayne Morton, M.D., Morton-van Zanter Clinic, Osceola and President of the Missouri Prairie Foundation. Regular Osage Plains Chapter Meeting held at the Courthouse Meeting Room, Clinton. March field trips will probably be scheduled on Saturday mornings, at least once a month.
- 18** Thurs., 7:00 PM Kansas City **Regular Chapter Meeting.** Program to be announced. Contact Daniel R. Rice at 816-461-0206, if you have questions. Location: Discovery Center, 4750 Troost.

April

- 1** **Due date for material for May-June *Petal Pusher*.** Please send meeting, field trip information and articles (typed double-spaced), photographs and graphics to the editor by this date. Send e-mail to: Betty Walters, MONPS Newsletter Editor, at <bettyluvsinsects@yahoo.com>.
- 16-18** Fri., 7:30 PM Caney Mountain **State Field Trip and Board Meeting.** See Page 2 for details!
- 19** Mon., 7:00 PM Clinton **Landscapes of the Osage Plains Bioregion** and other paintings by and presented by Professor John Louder, Department of Art, CMSU. Regular Osage Plains Chapter Meeting held at the Courthouse Meeting Room, Clinton. April field trips will probably be scheduled on Saturday mornings, at least once a month.
- 24** Sat., 9:00 AM Kansas City **Earth Day Celebration and Plant Sale** at the Lakeside Nature Center until 5:00 PM. Chapter Members will be selling native plants from Mervin Wallace's nursery. Contact Daniel R. Rice at 816-461-0206 for further details.
- 25** Sun., 10:00 AM Columbia **Earth Day Plant Sale** at Peace Park until 4:00 PM. Hawthorn Chapter Members will sell a variety of shrubs, forbs, grasses and some trees donated by their members.
- 28** Wed., 7:30 PM St. Louis **Flora and History of the Watershed Nature Center** presented by Jeannie Moe on her Master's research in nearby Edwardsville, Illinois. Joint meeting with the Webster Groves Nature Study Society held at Powder Valley Conservation Nature Center, 11715 Cragwold Road, Kirkwood (off Geyer Road, between Watson and Big Bend). A field trip to visit the center is planned for the following Saturday, May 1st.

MONPS Spring Field Trip Schedule & Board Meeting

April 16 – 18, 2004

Members and friends are invited to join us on our first field trip of the year to the Caney Mountain Conservation Area. We will see the Ozark area's native flora in glades, forest and along the Caney Creek. A visit to see the state champion black gum tree is on the agenda, along with a picnic lunch, evening barbecue and a Sunday drive along magnificent ridgetop vistas for our viewing pleasure. Plan now to enjoy the spring season in the heart of the Ozark Mountains with us!

ITINERARY

16 April Friday

7:30 PM

Evening Get-Together at the Caney Mountain Conservation Headquarters. Tim Smith will be our speaker. Directions: From Ava, take Hwy 5 southeast about 30 miles to Gainesville. Turn east on Hwy 160. At about one mile turn north on Hwy 181. Go about 5 miles north on Hwy 181, watch for MDC sign and turn left and go one-half mile on gravel entrance road to office/shop area.

17 April Saturday

9:00 AM

Field Botany Trip. Meet for field trips at Caney Mountain Conservation Area Headquarters. Field trips will be on the Conservation Area and will feature dolomite glades, mesic forest, the spring-fed Caney Creek and the state champion black gum tree.

We will picnic lunch on the area around noon (please bring along food and drink) and will have a barbecue at the headquarters for supper. A reasonable sum will be collected to cover the cost of food purchases for the barbecue.

6:30 PM

Board Meeting at Caney Mountain C.A. Headquarters.

18 April Sunday

8:00 AM

Meet at Super 8 Motel parking lot in Ava. Field trip to several stops along the Gladetop Trail. This trail is a driving route that follows gravel roads along the crest of some high ridges just west of Ava. It has many vistas and passes through lots of dolomite glades, mostly on Mark Twain National Forest.



LODGING

Super 8 Motel

1711 South Jefferson Street
Route 5 & 76 (Southside of Ava)
Ava, MO, 65608 US
417-683-1343

If we can get 10 rooms, the price for a standard room with two beds will be \$49.46 plus tax. If less than 10 rooms, the price will be \$54.95 plus tax. People will need to call the motel directly to be included as a part of the group.

Driving Directions

North: Highway 5 South into Ava; Motel is Located on the Left at the Highway 5/76 Intersection.

South: Highway 5 north into Ava; Motel is Located on the Right at the Highway 5/76 Intersection.

East: Highway 60 West to the Ava/Highway 5 South Exit; Turn Left onto Highway 5 South; Then Travel 12 Miles; Motel is on the Left of the Highway 5/76 Intersection.

West: Highway 60 East to the Ava/Highway 5 South Exit; Turn Right onto Highway 5 South; Then Travel 12 Miles; Motel is on the Left at the Highway 5/7 Intersection.

Petals & Wings



Betty Walters, Editor

"You three go out to the garden and help the others weed," I remember my mama saying that hot Mississippi morning. My two younger brothers and I were arguing—about what I do not recall. We were always arguing about something, and whenever any of her nine children were showing signs "of the devil's workshop," as Mama put it, we were swiftly sentenced to chores.

Weeding the vegetable garden was a task the three of us had never done before. Happily, we had been considered too young, and we had felt privileged our birth order had saved us from this dirty hard job.

My two brothers scowled at me and begrudgingly shuffled out of the room through the backdoor. Being a curious child, I lagged behind mustering my courage to ask, "Mama, what's a weed?"

She stopped washing the breakfast dishes, and as she turned from the kitchen sink to face me, I was not sure whether to expect an answer or a smack on the bottom. Wiping her hands with a dishcloth, she looked directly at me and said, "Betty, a weed is a flower that is out of place."

"But Mama, how will I know which flowers are out of place?" I asked.

"The older ones will show you. Now get going!" she replied.

NATIVE PLANTS OF THE OZARKS SOCIETY Works to Become Newest MONPS Chapter By Betty Queen, Secretary

Native Plants of the Ozarks Society was initiated in July of 2003. Our goals, in addition to working to become a Chapter of the Missouri Native Plant Society are: (1) Identify, locate and protect the plants that make our area so beautiful and unique; (2) Enjoy the company of others who have the same goal.

Our meetings are open to anyone living in or near the Ozarks. We meet at the Missouri Department of Conservation in West Plains at 6:00 PM. Our meetings this year are scheduled for April 20, July 20 and October 19th.

A tree exchange sponsored by the Missouri Department of Conservation is scheduled for March 16th. Plans are in the works for a field trip to the Hamilton Seed Open House in May and a float trip in June.

Our January meeting program was an introduction to keying out plants using a Dichotomous key and field guides. Melanie Carden-Jessen presented it.

We were excited to see that the Missouri Native Plant Society has two meeting and field trips scheduled for our immediate area.

For more information contact Melanie Carden-Jessen 417-255-9561 ext 236 or Ellen Kauffman 417-764-3640.

Thus began my education of plants, those that belong and those that do not.

Through the years, I came to love gardening and the peaceful solace I find working in the soil among the plants by nurturing the natives, those that belong, and removing those that do not belong, weeds, aliens or exotics being the more common names for these flowers out of place. Many of these plants originated in other countries, were introduced by design or accident and have proven their ability to wreck environmental havoc across the globe by causing a loss of bio-diversity.

Both mounting national and local control efforts concern those species that reproduce at extremely rapid rates, destroy sensitive ecological areas and spread unchallenged by the native environment because they have no natural enemies.

Attempts to eradicate alien species have cost the U.S. economy billions of dollars, and according to The Nature Conservancy, "are second only to habitat destruction in chasing native species into extinction."

Meanwhile, many of our local retail nurseries will continue to do a booming business this spring selling exotics. No wonder some would consider us human beings as the primary vehicle for the introduction and spread of nonnatives.

The signs seem self-evident to me. We are no longer privileged. Time to get our hands dirty, or as Mama would put it, "Time to leave the devil's workshop, go out to the garden and help the others weed."

Welcome to New Members

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

Shereen Pettit,
West Plains

Tom & Marjorie Carr,
West Plains

Rosemary M. Busse,
Mountain View

Rick Scarlet,
Koshkonong



It's A Wonderful Life Membership for MONPS Presidents

At the December 6, 2003, Winter Board Meeting, the Board of Directors voted to offer a Life Membership to all who serve, or have served as President of the Missouri Native Plant Society.

We are offering these Life memberships in appreciation for these officer's generous gifts of time, talents, and often, money in service to the Society.

Although being president of the Society has its own rewards, it is our hope this offer will express our sincere gratitude to our past presidents, who have set the highest standard of excellence through their service, and to our future presidents, whose service shall be needed to maintain this tradition in the protection and promotion of our Society's mission.

Committee Chair Reports Results

Nominating Committee Chair George Yatskievych, St. Louis (see back cover) announces that Board Members John Oliver and Bruce Schuette, whose terms will expire June 30, 2004, have agreed to serve another term, and no other nominations have been received.

Members now have at least 20 additional days following the date of this publication to nominate alternate candidates. (See page 6, Article VII in the *Petal Pusher*, Vol. 15, No.1.)

Other members of the Nominating Committee are Bill Summers and Kathleen Woods.

Sue Hollis, Kansas City, will Chair the Ballot Committee for this election, and Dan Rice and Kathy Winn will serve on the committee.

Kansas City Chapter Elects Officers By Daniel R. Rice, Chapter Representative

The Kansas City Chapter held its first meeting of the new year on 15 January 2004 at the Discovery Center. This was our field trip planning meeting, as well as our annual election of officers. The officers for 2004 are Sue Hollis, President; Dave Alburty, Vice-President; Pam Gilford, Secretary; Ed O'Donnell, Treasurer; and Dan Rice, Chapter Representative.

We have eight field trips planned for this year, starting with our first visit to the "Camp Branch Prairie" in Southeast Cass County, and finishing with a tour of the rare book room at Linda Hall Library of Science and Technology in November. We will also be selling native plants at various events during the year, as well as participating in the BioBlitz for the third year in a row.

If you have any questions about upcoming events, please feel free to contact me at 816-461-0206 or <drice95875@aol.com>.

Dr. Stephen Timme Will Teach Introduction to Identifying Mosses & Liverworts Workshop

By Dr. Stephen L. Timme & Nels Holmberg

CLASSROOM: Friday, April 23, 9:00 AM – 5:00 PM

St. Louis Community College - Meramec, Science South Building, Room 105

FIELD TRIP: Saturday, April 24, 10:00 AM – 3:00 PM.
Pickle Springs Conservation Area

Stephen L. Timme, Ph. D., Pittsburg State University, Kansas, will focus this workshop on (1) how to tell the difference between a moss, liverwort, and hornwort and (2) general characteristics used in keys for identifying bryophytes. In addition, the class will include how to prepare bryophytes for study and classroom practice in identifying bryophytes.

A field trip to Pickle Springs is scheduled for the second day of the workshop for field observations and identifications of mosses and liverworts.

Materials provided will include a key to some common bryophytes in Missouri, illustrated glossary of common bryophyte characteristics and general ecological aspects of bryophytes. A 10x hand lens is highly recommended and essential for field identification of bryophytes.

During the classroom introduction on April 23rd, major topics to be covered will be:

- What is a bryophyte?
- Recognizing mosses, liverworts and hornworts;
- Important characteristics for identifying bryophytes;
- Preparing bryophytes for in-class identification and observation of characteristics;
- Practice identifying bryophytes.

Participants will meet at Pickle Springs C.A. on April 24th at 10:00 AM for the field trip. The class will walk the trail and observe some of the more common species of bryophytes, as well as the characteristics of field identification. Bring water and a lunch to eat at noon and plan on returning to the vehicles around mid-afternoon.

The workshop is part of the St. Louis Community College Continuing Education's Master Naturalist Certificate program and is sponsored by the Missouri Native Plant Society. For more information telephone 314-984-7777, or register on-line at [www.stlcc.edu] and look under Continuing Education Biology Courses.

When one tugs at a single thing in nature, he finds it attached to the rest of the world. ~ John Muir

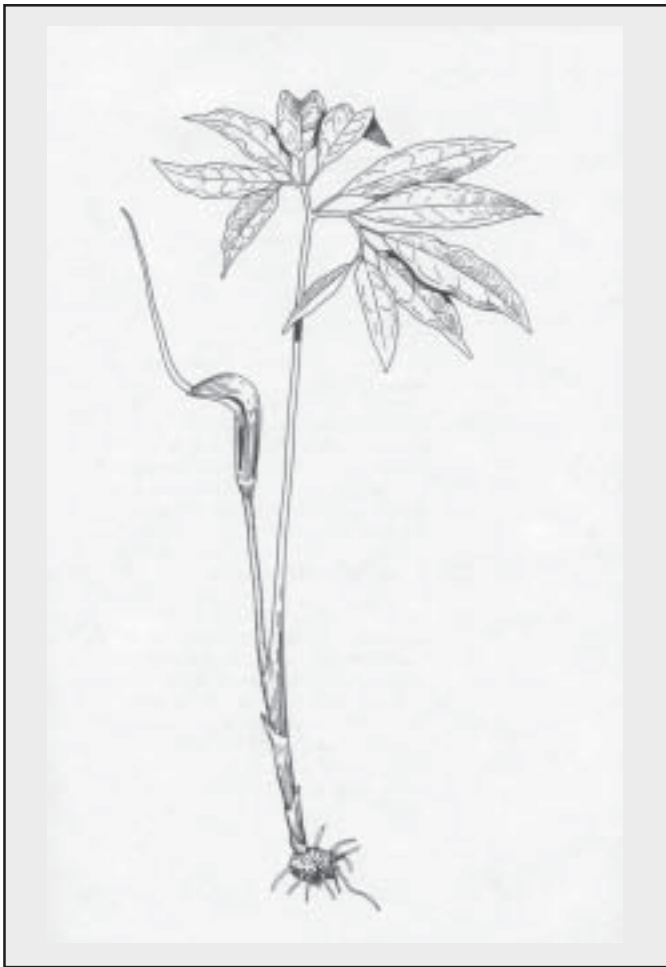


Illustration by **Paul W. Nelson**, reprinted with permission from the Missouri Department of Natural Resources, originally published in the book *Spring Wildflowers of Missouri State Parks* by **Bruce Schuette**.

GREENDRAGON

Arisaema dracontium

Arum Family (Araceae)

Blooming in April–June, *Arisaema dracontium*, grows up to 3 feet tall, and the single leaf is divided into 5-15 lance-shaped smooth segments, up to 4 inches wide and 10 inches long. There are no teeth along the margins of the segments.

Many tiny light green flowers are enveloped in a spathe, a tubular sheath, and emerge from the lower part of the spadix, a tail-like cylindrical floral spike on a fleshy stem, that branches off the leaf stalk near the base and grows up to 7 inches long.

The fruit of *A. dracontium* is tightly clustered shiny green berries that turn brilliant scarlet when mature in the fall.

Native Americans dried the round corm, the root, which is often large, and used it as food.

Look for this plant in rich, moist, rocky, wooded slopes and ravines statewide.

Visit Our Websites

Robin Kennedy, University of Missouri Herbarium, Columbia, is our Society's webmaster and has done an excellent job of constructing our site on the world wide web: http://www.missouri.edu/~umo_herb/monps.

The site is easy to navigate, contains our up-to-date calendar of events, brochures in pdf for viewing and printing, and many other topics of interest. Robin is quick to add new color photographs of our state's native plants to the site for our enjoyment, and if you would like to contribute one, or several, of yours, please contact her for guidelines today at <umoherb@missouri.edu>.

CHAPTER WEBSITES

Kansas City

www.angelfire.com/mo2/kcmonps/

Columbia

www.digmo.com/npsboco

SITES FOR MISSOURI BOTANY

Flora of Missouri Project:

<http://ridgwaydb.mobot.org/mobot/missouri/>

Atlas of Missouri Vascular Plants:

http://biology.smsu.edu/herbarium/atlas/atlas_of_missouri_vascular_plant.htm

OUR READERS' SITES OF INTEREST

KCWildlands: www.kcwildlands.org

GrowNative!: www.grownative.org

National Plant Conservation Campaign:

www.cnps.org/NPCC

Easyliving Native Perennial Wildflowers:

www.easywildflowers.com

~ **NEW** ~ Prairie Wildflowers of Illinois, Copyright ©

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http://www.shout.net/~jhilty/plant_index.htm

Northwest Georgia Reports

Discovery of *Clematis fremontii*

Submitted By **Tim Smith, Botanist, MDC**

There is an interesting note in the latest *Chinquapin*, the newsletter of the Southern Appalachian Botanical Society, that reports the discovery of Fremont's leather flower, *Clematis fremontii*, in the glades and barrens of extreme northwest Georgia. It was erroneously reported as *Clematis ochroleuca* in a dissertation in 1940.

The previously known distribution was Midwestern only and consisted of NE, KS and MO.

The note referenced a more formal report in *BotSoc News* 77(6).

Garlic Mustard Gone Wild

By Betty Walters

For those who enjoy garlic and mustard greens, garlic mustard, *Alliaria petiolata*, may seem the perfect kitchen garden herb. At least, our ancestors may have thought so and may have brought this European native with them when they came to settle the North American Continent. "Garlic mustard was first recorded in the United States about 1868, from Long Island, New York. It was likely introduced by settlers for food or medicinal purposes," states the Plant Conservation Alliance, Alien Plant Working Group, on their web site: [<http://www.nps.gov/plants/alien/fact/alpe1.htm>].

Could these settlers have known that their favored potherb would escape into its new environment, unchecked, to become, not the beneficial plant they knew, but one of the most grim invaders of forest communities now perniciously displacing native herbaceous species? Perhaps not, but the aftermath they may have created demonstrates an important lesson in the introduction of nonnatives.

According to the Plant Conservation Alliance, "Garlic mustard poses a severe threat to native plants and animals in forest communities in much of the eastern and midwestern U.S. Many native wildflowers that complete their life cycles in the springtime (e.g., spring beauty, wild ginger, bloodroot, Dutchman's breeches, hepatica, toothworts, and trilliums) occur in the same habitat as garlic mustard. Once introduced to an area, garlic mustard outcompetes native plants by aggressively monopolizing light, moisture, nutrients, soil and space. Wildlife species that depend on these early plants for their foliage, pollen, nectar, fruits, seeds and roots, are deprived of these essential food sources when garlic mustard replaces them."

A. petiolata has swiftly spread from the East into the Midwest and Canada and invaded 30 states and three Canadian provinces. Populations have become established west to North Dakota and Kansas, north to Quebec and Ontario, and south to Tennessee, North Carolina and Kentucky. Populations have been known in Oregon since 1974.

In a March 2002 Weed Alert, the Wildland Invasive Species Team, The Nature Conservancy, [<http://tncweeds.ucdavis.edu/alert/alrtalli.html>], announced the further advancement in this invader's range, "Small populations of *Alliaria petiolata* have been reported in Washington, Utah, Colorado, Idaho, and British Columbia."

George Yatskievych, Director of the Flora of Missouri Project, estimates the arrival of *A. petiolata* in Missouri to be during the 1960s. "We don't think that garlic mustard was in Missouri when Steyermark worked on the flora. Garlic mustard was first reported by Robert Mohlenbrock in *Missouriensis* in 1979, based on plants that he observed at a place called Grand Tower Island in Perry County. Subsequently, Mary Wiese discussed her observation of plants in Kirkwood in a 1979 note in *Missouriensis*. Then, Alice Nightingale reported a 1976 student collection in 1980 in *Missouriensis* from School of the Ozarks property in Taney County. In his 1980 update on new records for the Missouri flora, Norlan Henderson reported an even older 1967 collection from the Kansas City area (Jackson County). So, it's

a good bet that the species was in Missouri on both sides of the state by sometime in the early to mid-1960s and has been spreading since then."

Today, according to Tim Smith, Botanist, Missouri Department of Conservation, "We currently have documentation of sites in 27 Missouri counties but know that the species is more widespread than our database indicates. It is especially prevalent in bottomland forests of counties along the Missouri River where its seed are very efficiently spread by floods. It is not restricted to that corridor.

Some sites not near large rivers probably originated at home sites where the plants were cultivated as a kitchen herb. Once it gets to a waterway, it can spread from any site. Primarily a bottomland species, it can spread to uplands to some degree, with deer being a possible vector for getting the seeds spread around, probably just by moving them in mud on their feet.

I first saw it in 1987, and I think that much of its spread has occurred since that time. The major floods of 1993 and 1995 on the Missouri River probably greatly increased its distribution."

While James Trager, Reserve Biologist at the Missouri Botanical Garden Shaw Nature Reserve, Franklin County, reports no *A. petiolata* in the reserve, it is a different story in Lincoln County.

"Yes, it is a big problem along Big Sugar Creek in Cuivre River State Park," says Bruce Schuette, Park Naturalist, Missouri Department of Natural Resources. "I first found a couple small patches in the park in 1993 (but there were probably other established areas). The next year there was a little more, and then I found a bigger spot. In 1995 it exploded throughout the creek valley the whole length of the park.

For control we spray with 2% Roundup, and try and get through every place at least once during April. Then we double check as much as we can for anything we missed - either spraying or pulling - depending on the timing and amount. At this time we seem to be holding our own, and this year will be very interesting for us to see if there has been much progress.

I have also seen it in another spot in Lincoln County along Cuivre River. It is also very bad at Pershing State Park (Linn County) and Battle of Athens State Historic Site (located on the Des Moines River, Clark County). I have heard reports of it in Crowder (Grundy County), Roaring River (Barry County) and St. Francois (St. Francois County) state parks too. I have also seen it along MetroLink in St. Louis County."

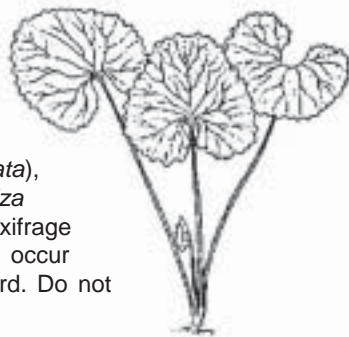
At The Nature Conservancy's Trice-Dedman Memorial Woods (North of Kansas City, Clinton County) the 200 native species are threatened as well.

"We were disappointed in the lack of progress in achieving *Alliaria* control at Trice Dedman by the end of the 1990's," says Doug Ladd, Director of Conservation Science, The Nature Conservancy, Missouri Field Office. "An analysis showed that this was probably due to two factors: (1) Hand pulling in dense areas allowed a few small plants to survive, and these matured and produced sufficient seeds to maintain the infestation;

Garlic Mustard Gone Wild Continued on Page 7

Recognition Is Critical

Native Toothwort
(*Cardamine concatenata*),
Sweet cicely (*Osmorhiza
claytonii*), and Early saxifrage
(*Saxifraga virginensis*) occur
alongside garlic mustard. Do not
mistake them for it.



Garlic Mustard Gone Wild Continued from Page 6

(2) There appears to be a small cohort of plants that are much later to flower and fruit than the main population. These late bloomers are not detected in hand pulling operations and later produce seed."

Doug explains how resilient this weed is saying, "During our early hand picking efforts, there was so much garlic mustard at Trice simply moving the volume of pulled material out of the site was a major problem. After two years, we decided to leave the pulled plants piled on site, in locations where they would dry out quickly. To test whether this would still allow some seed set, I placed a pile on the lawn at the side of my house as a test. When no plants appeared after three years, we assumed that it meant that the pulled plants (pulled in the flowering stage) were not able to produce viable seeds. Five years later, I was stunned to find several *Alliaria* plants in the lawn where I had placed the pile!

Now, we remove all plants off site and destroy them in a special incineration chamber that Ron Papsdorf, the superintendent at nearby Wallace State Park, constructed for that purpose.

At Trice, we have now embarked on a regime of targeted spraying with Roundup in early spring, followed by several rounds of follow-up hand pulling, and we will have to maintain the regime for at least five more years.

Ron Papsdorf has experimented with spray regimes, and has found that there is a short window when *Alliaria* is about the only thing breaking dormancy—not even the vernal native wildflowers are emerging. This window typically lasts less than a week, so one has to watch the site closely to be able to do this. We then use teams with backpack hand pumped sprayers, using 2% solution of Roundup with a little surfactant. It helps to grid off the area, so that one can ensure the entire site is examined and all *Alliaria* plants are sprayed. We put purple herbicide dye in the mix so we can see what has been sprayed even days later.

It's a nasty plant, although easily controlled with regular dormant season fire for several years in a row."

If you suspect a garlic mustard infestation, but are uncertain, please contact a knowledgeable botanist before beginning any eradication efforts.

Readers are encouraged to submit vouchers to The Flora of Missouri Project, to help better track the spread of *A. petiolata*. Visit the project's web site at [<http://ridgwaydb.mobot.org/mobot/missouri/>], contact George Yatskievych, Director, at <george.yatskievych@mobot.org> or telephone 314-577-9522 for further information.

GARLIC MUSTARD ATTACK DAY COMING SOON

Editor's Note: The following article was first published in the *Tyson Tidbits*, January 2004 issue and is reprinted here by the permission of the author. Contact David Larson at <dlarson@biology.wustl.edu> or telephone 314-935-8431 for more information.

**By David A. Larson, Field Station Manager,
Washington University, Tyson Research Center**

We are planning a "Garlic Mustard Attack Day" at Tyson sometime in early Spring 2004. This invasive species, *Alliaria petiolata*, is an extremely aggressive biennial, which has recently appeared at Tyson, mainly in the southwest part of the property. We are trying to prevent its spread, as it could have severe impacts upon the native flora, if left unchecked.

The most effective way to control the adult plants is to pull them when the ground is moist, before they flower and set seed—this is when we need your help. We will spread out in the forest understory and pull these plants out of the ground with roots intact. We are currently fighting the seedlings with herbicides, in other areas.

Our "attack day" will probably be on a Saturday or Sunday, around the early part of April, depending on weather conditions. Please plan to join us for this challenge. We would really appreciate your assistance with this invasive plant, and plus — Tyson will provide hot fresh PIZZA and soda for all weed-pullers.

Eurasian spotted knapweed, *Centaurea maculosa*

Chemical Weapon of Mass Destruction Invades Southwestern Franklin County

By Nels Holmberg

The invasiveness of exotic plants has long been attributed to their lack of natural enemies. Now, another competitive advantage has been identified for one of our spreading exotic weeds.

The Eurasian spotted knapweed, *Centaurea maculosa*, has spread across the United States and Canada. It can be seen covering roadsides in southwest Missouri, taking over pastures in central Wisconsin, and spreading into southwest Franklin County.

In an article in the September 5, 2003 issue of *Science*, a group of authors from the biology departments of Colorado State, Pennsylvania State, and the University of Montana documented the chemical warfare knapweed inflicts upon its competition.

The knapweed produces the chemical, catechin, which is toxic to other plants, a phenomena called allelopathy. This chemical accumulates in the soil around the knapweed's roots, causing the death of the root system and inhibiting seed germination of susceptible plants. Two native North American grasses, *Festuca idahoensis* and *Koeleria micrantha* (June grass), were shown to be susceptible, while the knotweed itself and some European grasses were resistant. The European grasses have long grown with the knotweed and exist with it peacefully, but the native NA natives get zapped.

Perhaps the search for chemical weapons of mass destruction should extend to southwestern Franklin County.

Thank You Missouri Native Plant Society Members for Your Support in 2004!

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ORLT Schedules 2004 Winter Volunteer Stewardship Days

By **Andrew L. Thomas**

The Ozark Regional Land Trust announces its last two upcoming Volunteer Stewardship days for this winter and spring: Saturday, March 6, 10:00 AM–3:00 PM Amy's Woods and Saturday, April 17, 10:00 AM–3:00 PM Sarcoxie Cave and Spring.

ORLT continues to make tremendous progress at several of its projects, and we are really looking forward to accomplishing even more over the next several weeks with your help.

This winter-spring, we are planning one workday at Amy's Woods and one at Sarcoxie Cave. At the Sarcoxie Cave and Spring Project, we will continue our efforts to remove invasive weeds, plant native wildflowers, burn up brush, and remove trash.

You are invited to come and see the completed Phil Harris Memorial Bridge that now spans the spring branch. This beautiful arched, covered bridge, built by our own John Cutler, is a masterpiece! We need some help smoothing and spreading out some dirt and rock piles left in the wake of the bridge's construction and adding some finishing touches to the landscape around it.

Also, we invite you to come see another masterpiece unfolding at Amy's Woods. The old, historic cabin was in desperate condition and has undergone a magnificent renovation this fall and winter designed and accomplished in large part to ORLT's President Gregg Galbraith.

While preserving the historic character and charm of the very unusual cabin, it has been completely transformed into a gorgeous, rustic, hospitable cabin nearly ready for rent.

There are lots of finishing touches to add to the cabin including some cleanup of debris left in the aftermath of the construction, window washing, general cleaning, minor painting, etc.

The grounds have unfortunately been torn up by heavy equipment, and we need help getting the lawn and garden cleaned up and replanted before spring. We would love to have some Master Gardeners get involved! Please bring along cuttings and divisions of any appropriate "old fashioned" type flowers (iris, daylily, peony, etc.) as well as, colorful wildflowers to plant.

Please bring along work gloves, drinking water, lunch, appropriate tools (shovels, rakes, clippers, etc.), and a friend. Children are welcome. The work days will go on rain, snow, or shine (within reason).

Feel free to call me at 417-236-0223 or e-mail me at <ThomasAL@missouri.edu> for directions or with questions. Thanks, and we hope to see you there!

To All Aspiring Sedge Heads!

By **Paul McKenzie, US Fish & Wildlife Service**

Missouri's 3rd Annual Carex ID Workshop will be held June 10-11, 2004, in Springfield, Missouri on the SMSU campus. The workshop will run approximately from 8:00 AM–4:00 PM June 10, and 8:00 AM–4:00 PM June 11.

Dan Drees of Missouri Department of Conservation will coordinate registration. If you are interested in attending and would like to reserve a spot, please contact Dan at <daniel.drees@mdc.mo.gov>. Send your e-mail address and how many will be in your party. There is no registration fee.

We have room for 44 participants (minus six who have already indicated they will attend prior to this announcement.)

The workshop is open to all invitees on a first come, first serve basis. If more than 44 sign up, we will provide a waiting list (to date, we have always had cancellations for the two previous workshops).

Dr. Michelle Bowe, Assistant Professor and Curator, Ozarks Regional Herbarium at SMSU, will be our local host.

In addition to myself, the instructors will be Dr. George Yatskievych of the Missouri Department of Conservation, Brad Jacobs of the Missouri Department of Conservation, and Mike Currier of the Missouri Department of Natural Resources.

If you have any questions, please feel free to telephone me at 573-234-2132, Ext. 107, or e-mail me at <Paul_McKenzie@fws.gov>. We will provide all registrants with a hotel list, recommended restaurant list, map (including directions to Bass Pro), and parking information.

Quarterly Board Meeting Highlights

Dunn-Palmer Herbarium, Columbia, MO, 06 December 2003

President Kathy Thiele (KT) called the meeting to order. Quorum assessed – okay. September 6, 2003, Cape Girardeau, MO. Minutes approval: Jack Harris (JH) asked that #5 in the minutes be modified to clarify a fee for changing the Society's registered agent, and also an annual fee. George Yatskievych (GY) Moved for approval. Bob Siemer (BS) Seconded. Motion approved.

TREASURER'S REPORT—Bob Siemer (BS): Copy on file with Secretary. Society's accounts earned \$82.56 YTD with a total balance of \$14,161.07. The Hudson accounts have earned \$45.23 in interest with a fund total of \$13,254.73. Total assets of the Society are \$27,415.80. The 2004 proposed budget submitted. Expenses for 2004 estimated. GY suggested the '04 budget for the *Missouriensis* be bumped up. BS suggested budgeting \$3600 to cover the two issues that will be billed for in 2004. Under Revenue, BS estimated less income from Dues in 2004. He stated it is possible to run at a deficit in '04 (the cost of two issues of *Missouriensis* and T-shirt expenses will account for the deficit, although the T-shirts will also represent delayed income).

Figures related to the Hudson fund were explained: \$365 is in the expense category, but also in the Hudson Fund. Represents the money approved in September to be donated. An expense of \$600 for is estimated for 2004 in anticipation of the transfer of revenue accrued from fund instructions. If money for the Hudson award needs to be taken from the principle, it won't take the principle below the set minimum balance. Budget needs to reflect \$500 from the fund for the award. Additional fund monies will be added to the CD at rollover. Money will be tracked as Hudson donation and "marked" for transfer. Checks should be made to MONPS. A correction to the '04 Hudson fund numbers, MONPS donation should be changed from \$500 to \$600. Summary: budget \$2500 for T-shirts, \$3700 for *Missouriensis*, increase sales revenue to \$750; increase miscellaneous expense to \$150, add meeting expense of \$150; deficit spending will occur in 2004, should balance out in a few years. GY Moved the amended budget be accepted. Dan Rice (DR) Seconded. Motion accepted.

HUDSON FUND COMMITTEE REPORT—GY asked JH to contact the Webster Groves Nature Study and ask if we can use their school mailing list to send out Hudson Award announcements. KT suggested that BS be a committee member. Tim Smith (TS) will be willing to review proposals. GY offered to chair the committee.

PUBLICATIONS AND MEDIA

PETAL PUSHER—Betty Walters (BW): No report.

MISSOURIENSIS—George Yatskievych. Next issue may come out in January.

MONPS WEBSITE—Robin Kennedy (RK). Memberships continue to come through website. Bruce Schuette provided new photos. Note/request for more could be put in the *Petal Pusher*. RK and GY need to talk about putting the new MONPS brochure on the site. Q: Should we put a "selected" article from the *Petal Pusher* on the website? Ann Earley—good idea; Bob Siemer—delay by one issue. Calendar with meeting info is essentially the front page of the *Petal Pusher*. Q: Should Officers and Board members be listed on the website? With contact info? Map of the state with hotlinks? Info about interesting sites; also, an archive of photos from particular areas? Highlight a contact person from various regions? RK will contact everyone listed on the back of the *Petal Pusher* and ask them if they want to be on the website. Links to Chapter websites are on the state site (not all Chapters have a website). Can chapter websites have merchandise? Hawthorne and Kansas City will investigate putting merchandise on their websites. Q: What about shipping? No mechanism. A: Process of putting merchandise on the web is investigatory. Scholarship info should go on the web; send to RK. RK will update publications. Put the new design up. Stay tuned in the *Petal Pusher*.

COMMITTEES & TASK FORCES

MEMBERSHIP STATS—Ann Early (AE). 399 members; 436 w/37 exchange. 33 new members since September. 18 new members from West Plains. New members continue to come in from the website and the new brochure. AE will be purging 63 with delinquent dues. Half of members are without Chapter affiliation. Chapter dues for life (there are 19). Recommend that Chapters accept state life members as Chapter life members, would primarily affect St. Louis. GY stated that shouldn't be a problem. Chapter reps should talk to the Chapters. Member numbers by Chapter: Osage 14, Jefferson City 16, Kansas City 44, Hawthorne 67, St. Louis 113.

NOMINATING COMMITTEE—George Yatskievych: 2 Board positions expire, incumbents strong candidates.

BALLOT COMMITTEE—Sue Hollis. Absent, no report.

AWARDS COMMITTEE—Tim Smith's replacement. TS stated one needed to have awardees in mind, few nominations from *Petal Pusher* notice. BS Moved that Jack Harris be appointed Chair of the Awards Committee. John Oliver (JO) Seconded. Motion passed.

CHAPTER REPORTS & CHAPTER FOLLOW-UP REVIEW

HAWTHORNE, KANSAS CITY, AND ST. LOUIS (Reports on file with Secretary). Osage Plains Chapter is short several officers; interested in speakers. Jay Raveill approached about leading field trips. KT will email Beth Walker about writing a call for speakers. Jefferson City Chapter problems. Tom Schulz meeting with Phil Pitts (of MDC); perhaps, Phil will take over. If this attempt to find a leader fails, the chapter may fold. JR asked Hawthorne members to contact Jefferson County people; see if there is interest. Max Towler (MT) to try and revitalize Springfield (next fall). Possible new Rolla and West Plains chapters.

SOCIETY BUSINESS—ILNPS & MONPS 2005 joint meeting at Pere Marquette. GY, meeting scheduled for the last weekend in May 2005, before Memorial Day. IL making all arrangements for facilities.

CONSERVATION FORUMS—Topics? Who should go? JH, natural history programs, Flora of MO project, endangered species programs, natural communities of conservation concern, naturescaping, items of interest to MONPS. KT asked JH to add exotic plants and coordination to list of concerns. BS, coordination of MDC with other departments in the state (e.g. use of natives).

WILD AREA ADVISORY COMMITTEE—Meeting December 12th in Jefferson City. MT is on committee at Roaring River; trying to redesign management plans. KT has a copy of the final draft agreement. MONPS requested for someone to serve on committee to review document. Contact PCA regarding policy of burn/non-burn on Wilderness Areas, Mark Twain Forest? Call Jody Eberly to find where our influence would best be placed (e.g. regarding prescribed fire on Mark Twain).

NATURAL RESOURCES CONFERENCE BOOTH—Booth is \$75.00. Yielded one membership. JO Moved to skip a year. RK Seconded. Motion passed.

OPERATING MANUAL STATUS—Pat Harris, absent. Still needs description of some officers not accounted for, need to send job descriptions to Pat.

FUNDRAISER/T-SHIRTS—Sue Hollis, absent, TS has report. TS distributed a copy of the new design. Need to call Ann to discuss colors and issues with contracting. Judy Turner (JT) Moved to accept. BS Seconded. Discussion: give artist discretion on where words should go, but give suggestion on where to start. Amended motion: accept design and suggest that "wildflowers" go on top and the rest of words on bottom. Amended motion passed.

MONPS PATCHES—GY has the patches for the patch program. Needs to be a patch program officer for the program to go forward. KT, Chapter reps should take the patch brochure back and re-introduce the program. JT volunteered to be Patch Chair. Charge \$3.00 for the patch? KT, yes.

STLCC—MERAMEC NATURALIST SERIES GUIDELINES—Nels Holmberg (NH). NH provided a draft guideline for compensating those teaching classes (copy on file with Secretary). Wording of #1: "Expenses and fees for instructors will be paid from the income generated by each class, and will not exceed that income. Any excess income will go into the Stan Hudson Education Fund." BS, future Boards could amend the policy. GY, let's restrict the policy to SLCC. In the future we may want to bring someone in and want to invest in bringing someone in, and expense could exceed revenue. Limit the policy to SLCC and take up other issues (outside SLCC) as they come up. RK Moved that MONPS adopt #1 guideline for SLCC. Paul McKenzie (PM) Seconded. Guideline accepted.

SET 2004 MEETING DATES AND PLACES

- Caney Mountain—April 16-18
- West Plains—June 11-13
- St. Joseph—September 10-12
- Columbia—December 4

MISCELLANEOUS ANNOUNCEMENTS

Should we write a letter to the Director of MDC in support of GrowNative! program/this is related to the letter that many have seen that was sent by Mervin Wallace. TS, this is the time to comment copy several entities—the Director, Commissioner, Head of Private Land Services. JH and KT will write letter.

JH received a letter from the Center for Plant Conservation regarding distribution of a flier with tips for gardeners—tips related to rare species. Will decide at next meeting if MONPS will distribute the document.

3rd Carex workshop will be the first weekend in June (Crowder College). PM would like to have membership brochures for workshop. USFWS has had the travel budget cut, thus expenses for PM won't be completely covered; perhaps MONPS could cover expenses for the Carex workshop. TS, the college is only providing space. MT Moved to that MONPS pay Paul McKenzie's expenses. JT Seconded. Motion passed. Q: Will MONPS be an acknowledged sponsor? A: Yes.

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Quarterly Board Meeting Highlights

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Grass ID workshop will be 3rd week in September in Fayetteville.

PM and GY will announce a date for a Cyperaceae workshop next year

PM—Should Past-Presidents of MONPS be provided with life membership as appreciation? RK Moved that we offer all of our Past-Presidents and future Past-Presidents a life membership. BW Seconded. Vote not unanimous. The motion passed.

By-laws update

- GY Moved that Article VI Sect. 6 of draft #2 be accepted in its entirety with the exception that "or telephone" be added with each reference to email. PM Seconded the motion. The motion passed.

The section will read as follows:

It is the policy of the BoD to respond to issues that may come before the Society in the usual manner at a regularly scheduled BoD meeting where a quorum has convened whenever possible. In the event that a critical issue arises that requires a response time that is not afforded by the Society's regular meeting schedule, the Society BoD may employ electronic(e-mail) means and/ or phone to process a timely decision. Any voting member of the BoD may initiate a request that the President conduct a vote by e-mail or phone. The request must contain a concise statement of the question, the last date that an answer must be filed, and a brief statement on the reason the BoD should participate on behalf of the Society. Upon receipt of a valid request, the President will send, via e-mail or phone, all appropriate information, along with a statement of the question that requires a vote, to each voting member of the BoD. The message from the President will also contain the date by which each member must respond in order for their vote to be counted. Each addressee must have a minimum of five calendar days to respond. Normally each recipient may file one of four possible responses, i.e., (1) Yea, (2) Nay, (3) Abstain, and (4) present. Each recipient may also submit questions and or a motion to amend the question to the President. In that event the president will relay the amendment motion to all recipients and extend the due date accordingly where possible. The total responses received by the President must meet the quorum requirements(see Section 4. above) for any decision to be valid. The quorum count shall be based on message responses received by the due date. If the quorum requirements are not satisfied, the President or the BoD will not respond to any issue. The President will keep a record of all transactions and votes that take place using the e-mail/phone method and present the results for review at the next regularly scheduled meeting of the BoD.

TS Moved that the new Section be inserted as Sect. 11 of Article VI. BS Seconded. Motion passed.

- In Draft # 2 Article VI Sect. 5 states that 50% of the BoD members will represent a quorum. But the '95 by-laws state that 40% will constitute a quorum. GY Moved to accept Article VI Sect. 7 of Draft #2 as written. JO Seconded. Motion passed. JO Moved that the Sect. be added to the '95 by-laws as Article XIII, and that the current Article XIII be changed to Article XIV. BW Seconded. Motion passed.

The new Article XIII reads as follows:

It is the policy of the Society to use Roberts Rules of Order as a **general guide** and reference for the conduct of meetings. Roberts Rules of Order are herewith made a part of these bylaws by reference.

- BS asked about the fiscal year. JO stated the intent is that the fiscal year by Jan. 1-Dec. 31. It should already have been changed to that. (We need to find out when that change occurred.) BS Moved that the change be made if it hasn't been done already. No dissent.

- GY suggested that further by-laws discussion be tabled.

REVIEW ASSIGNMENT/COMMITMENTS (Notes submitted by TS, Assignment Recorder)

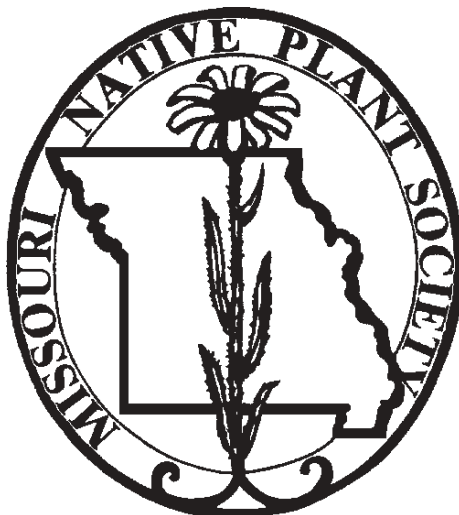
1. BS—will revise Budget and send to chapter reps.
2. GY—will assume duties of chairing Hudson committee.
3. RK—will write note for *Petal Pusher* to solicit more website photos.
4. GY & RK—will discuss getting new brochure on the web.
5. RK—will contact everyone from the back of the *Petal Pusher* (PP) to see if they want their contact info on the web.
6. GY—will try to get Hudson Fund info into next PP.
7. JT/DR—will investigate putting merchandise onto Chapter websites.
8. Chapter reps—will ask their Chapters if they will agree to give life members free chapter membership
9. BW—will put request for awards nominations in next PP with Jack Harris as recipient of the nominations.
10. JH—will attend Dec. 12 Wild Area Advisory Committee in Jefferson City.
11. PM—will contact Judy Eberly about changes to wilderness restrictions on prescribed fire.
12. TS—will arrange for meeting room at Caney Mountain for April Board meeting and at West Plains for June meeting.
13. RK—will check again to see if CPC website contains document on tips for gardeners.
14. PM—will contact Missouri Western State College regarding arrangements for fall meeting.

APPRECIATION—Thank you to Robin Kennedy for hosting meeting at Dunn-Palmer Herbarium.

PRESENT AT MEETING:

- | | |
|---------------|--------------------|
| Robin Kennedy | Jack Harris |
| Betty Walters | George Yatskievych |
| Kathy Thiele | Nadia Navarrete |
| Paul McKenzie | AnnEarley |
| Bob Siemer | Bruce Schuette |
| Tim Smith | Kim McCue |
| Judy Turner | Dan Rice |
| Nels Holmberg | John Oliver |
| Max Towler | Pam Haverland |
| Jay Raveill | Laura Ellifrit |

Respectfully Submitted,
Kimberlie McCue
MONPS Secretary



INFORMATION ON JOINING MISSOURI NATIVE PLANT SOCIETY

SOCIETY DUES

(Chapter dues additional)

Student	\$5.00
Regular	\$10.00
Contributing	\$20.00
Life	\$200.00

CHAPTER DUES

Columbia	\$6.00
Jefferson City	\$5.00
Kansas City	\$5.00
Osage Plains	\$5.00
St. Louis	\$5.00

Make check payable to: Missouri Native Plant Society
Mail to: Missouri Native Plant Society
PO Box 20073, St. Louis, MO 63144-0073

Name _____
Street _____
City, State _____
9 digit Zip _____ Phone _____
e-mail _____

(Circle all that apply)

Do not publish my name and address in the membership list.

Inside This Issue

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 - April Bryophyte ID Workshop
 - Exotics Remain A Threat to Our Native Flora
 - MONPS Membership Names & Addresses
-

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