OUR NEXT CHAPTER MEETING:
THURSDAY AUGUST 13TH
6:30PM
MU EXTENSION BUILDING

Karst Topography, Sinkholes and the Impact on Construction

Missouri, also known as the Cave State, has about 5,600 ‘known’ caves and nearly 16,000 ‘known’ sinkholes. Caves and sinkholes are in constant development. Learn where one of the biggest in the state is—it’s closer than you think! Eric H. Lidholm, Professional Engineer, of Crockett of Geophysical Testing Lab will provide geologic background about Missouri sinkholes and caves as well as share 2 local case histories of "new" sinkholes and their impact on projects under construction.

This program is approved for 1 hour of Advanced Training. Members count 1 hour of Advanced Training in addition to 1 hour of service plus travel time. Advanced Training does not require a timesheet code. The timesheet code for service/travel time is ADM.

Bring your cup & plate & utensils – NONE will be provided!
Sweets: Kay Conklin  Savories: Cathy Harris  Drinks: Linda Karns
I was out checking my swamp milkweed today, looking for monarch eggs, so that led me to write about milkweed plants. Milkweed is a wildflower that is native to the U.S. Growing up to six feet tall, the plant has long, thin, rigid stems, with a spherical cluster of pinkish-purple flowers. The name milkweed describes the milky sap, which contains natural latex. This latex contains alkaloids (nitrogen-based, drug-like chemicals) and cardenolides (natural steroids), which in some species can be toxic. There are more than 100 species of milkweed, with 17 species in Missouri. The most commonly seen species found in Missouri is common milkweed. You probably know that monarch caterpillars need milkweed plants to grow and develop, and that female monarch butterflies only lay their eggs on milkweed. But did you know that milkweed also provides nectar resources to a diverse suite of bees and other butterflies? Keep in mind that milkweed must be handled with care. First, you should never eat milkweed – it will make you vomit! Second, you should avoid getting the sap on your skin or in your eyes. By the way, I did find monarch eggs so I’m excited about raising caterpillars again this year!

-Robbie Scholes, President, Boone's Lick Master Naturalists

Information written by Benjamin Vogt and found on Missourians for Monarchs’ Facebook page and the Monarch Joint Venture web page.
University (Jeff City) campus on Saturday August 29th, hosted by Lincoln University Native Plants Program. The cost is $30 per person. Guests will enjoy a full course dinner prepared with native Missouri edible plants, and locally grown meat and produce will be served. The menu will include appetizers, entrée, salad, side dishes, desserts, and local wine samples.

**DINING WILD 2015: SCHEDULE OF EVENTS (Saturday August 29th)**

3pm: Registration & Exhibits (our chapter will have a booth at this event, stop by and say Hi!)

3:15pm to 4:45pm: Native Plant Garden Tours

5:00pm to 6:00pm: Mixer with Missouri Wine Samples

6:00pm to 8:00pm: Dinner followed by guest speaker: Dr. Linda Hezel, Missouri Organic & Native Plants Farmer

A bunch of us will be going to this event, so we can plan to carpool on that day. For more information, scroll down to end of this newsletter to see a flyer about this event. **YOU NEED TO RSVP BY MONDAY AUGUST 17TH.**

You can find more information about the event [here](#).

You can also LIKE on Facebook: **DINING WILD. Dining in style with Native Edible Plants**

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**Help an MU Graduate Student with Local Plant & Bird Survey**

Remember when Dr. Charlie Nilon from the Department of Fisheries & Wildlife Sciences at MU came to our MMN training to talk about urban wildlife ecology? Turns out, one of his graduate students, Eric Fishel, is working on a project to study how land management decisions in Columbia affect the plant and bird communities in residential areas. Right now he is waiting on responses from residents for permission to survey their yards, then he will begin scheduling survey times. Volunteers would help up to 5 hours during assigned day(s) and will be able to help as little or as much as they wish. If you would like to help, please email Eric Fishel at [ef24d@mail.missouri.edu](mailto:ef24d@mail.missouri.edu), and he will email you the specifics. At some point, this project will most likely be approved for volunteer hours!

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**Check out this cool birding website – it’s a handy resource for people who work with kids and outdoor classroom projects:** [http://www.birdsleuth.org/](http://www.birdsleuth.org/)
Missouri Master Naturalist Suzanne Wright (Class of 2005) Featured in Missourian Article about the Eagle Bluffs Bird Monitoring Project

Check out this wonderful Missourian article by Patrick McKenna about Suzanne and her husband Brad’s involvement in the Eagle Bluffs Bird Monitoring Project. They have helped with the bird counts since the project began in 2012. Alongside other volunteers, they have helped collect information on the bird species that migrate through and inhabit the Eagle Bluffs Conservation Area. The data is collected using a 12-minute count: Every three minutes, volunteers identify as many birds as they can see in a 250-meter radius of their assigned counting point. The article includes some great photos of Suzanne and her husband!

If you are interested in earning volunteer hours by helping with future counts, please email Clayton Light, MDC Wildlife Biologist. You can learn more about Clayton here.

Photo Credit: Taz Lombardo

VOLUNTEER OPPORTUNITIES

SERVICE PIN FOR 2015: THE PROTHONOTARY WARBLER

For updated information on volunteer opportunities, please see the online calendar on the chapter website. Please contact the person indicated for more detailed information on any of the projects.
To submit a project for consideration for service hours, fill out a Volunteer Opportunity Approval Form, and email it to MMNVolOpps@gmail.com for consideration.

RE-POST:
ASSIST WITH NATIVE PRAIRIE SEED COLLECTION

There are many opportunities to assist with native seed collection throughout this summer and fall. It’s an excellent way to learn new species of plants while assisting with prairie restoration in Missouri. See below for a tentative schedule -- locations and times are TBD. Volunteers will travel to different locations within about 45 minutes of Columbia to gather seed for prairie restoration at Prairie Fork Conservation Area. MDC will provide limited transportation; carpooling is encouraged. Chris Newbold will send an email a week or so before each trip. Please email Chris Newbold to be added to Prairie Seed Collection email list.

You can find excellent pictures and descriptions of wildflowers here.

- **Saturday August 29th**: Tucker Prairie
- **Tuesday Evening September 8th**: Auxvasse Glade
- **Saturday September 26th**: Diggs Area
- **Saturday October 10th**: Rocky Fork Conservation Area
- **Sunday October 11th**: Prairie Fork or Auxvasse Glade

**CONTACT:** Email Chris Newbold at chris.newbold@mdc.mo.gov

**Opportunity Code for Timesheets:** PRFORK

**Photo Credit:** Suzanne Wright (Class of 2005) – Seed Collecting at Tucker Prairie

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Additional **VOLUNTEER OPPORTUNITIES** for August 2015

- **Wednesdays in August (12th, 19th, and 26th) from 7:30am to 4pm**, Destination TBA, meet at SW Corner of Parkade Center parking lot: Birding Trip Hosted by Bill Clark, call Bill at 573-474-4510 to RSVP. (Timesheet Code CAS)
- **Friday August 14th from 9am to 11am**: Wildflower Work Party, location TBA, please email Lea Langdon or call 573-864-7647 for location information. (Timesheet Code WO)
- **Saturday August 15th from 8-10am or 10am-noon**: Volunteer to assist at the Hazardous Waste Drop-Off Facility at the Grissum Building (1313 Lakeview, Columbia MO), email Volunteer@gocolumbiamo.com to sign up to help, learn more here. (Timesheet Code COC)
- **Thursday August 20th from 9am to 11am**: Work Party at Forum Nature Area, no need to RSVP, if you have questions email Lea Langdon or call 573-864-7647. (Timesheet Code WO)
- **Friday August 21st from 8am to 10am**: Work Party at Methodist Conference Center, no need to RSVP, if you have questions email Lea Langdon or call 573-864-7647. (Timesheet Code WO)
- **Tuesday August 25th from 3pm to 5pm**: Work Party at Rock Bridge Elementary, no need to RSVP, if you have questions email Lea Langdon or call 573-864-7647. (Timesheet Code WO)
- **Saturday August 29th**: Prairie Fork Seed Collection Field Trip, email Chris Newbold to be added to Prairie Seed Collection email list. (Timesheet Code PRFORK)
- **Monday August 31st from 8am to 10am**: Work Party at Rock Bridge High, no need to RSVP, if you have questions email Lea Langdon or call 573-864-7647. (Timesheet Code WO)

Check out the online Chapter calendar for more details about the above volunteer opportunities and to RSVP to volunteer!

### ADVANCED TRAINING OPPORTUNITIES

For updated information on advanced training opportunities, please see the online Chapter calendar. To submit an opportunity for advanced training consideration, use the form on the chapter website and email it to MMNATrain@gmail.com.

**Recently Approved for Advanced Training!**

Register to Attend the Missouri Bird Conservation Initiative’s Annual Conference (August 22\textsuperscript{nd} & 23\textsuperscript{rd} in Columbia MO)

The Missouri Bird Conservation Initiative (MoBCI), a partnership group of 72 organizations, will hold their annual conference August 21 (evening) and August 22 at Peachtree Banquet and Catering Center in Columbia. Theme is “To Kill a Mockingbird” and will address a variety of threats and challenges facing bird management in Missouri and elsewhere. Dr. Peter Raven is the keynote speaker. He will open perspectives to the importance of diverse plant communities, impacts of climate change and how sustaining life, including birds, hinges on diversity. Other topics to be covered during the conference include avian lead poisoning, neonicotinoids, avian apathy, legislation, bird monitoring updates, real threats associated with wildlife disease, patch burn grazing, and landscape scale burning. There will also be an interactive session, encouraging audience participation. A personal advantage of being there is the opportunity to network with conservation leaders from many NGOs and federal and state agencies during the social times intermixed with the learning sessions. Registration fee is $45, but includes appetizers Friday evening before the keynote address and lunch on Saturday.

Further details can be found at [http://mobci.net/2015-mobci-annual-conference/](http://mobci.net/2015-mobci-annual-conference/)

**Approved for 1 Hour of Advanced Training:**

**LEARN HOW TO COMPOST & GET A FREE BASIC COMPOST BIN!**

Did You Know? Many organic materials you generate at home such as lawn clippings, landscape trimmings, kitchen scraps, leaves, and untreated cardboard can be managed through composting. They can be recycled into
compost which then can be used in your gardening efforts as a soil amendment. If you are interested in learning how to compost in your own backyard, the city offers free composting workshops. Attendees are eligible to receive a free basic compost bin or a deluxe bin for $20. Registration is preferred. **The following is the 2015 workshop schedule:** Saturday 9/12 at 10am, Saturday 10/24 at 10am, or Saturday, 11/14 at 10am. Please visit this webpage for additional information such as registration details, directions, etc. If you are a proficient composter and interested in instructing a workshop or acting as a classroom aide, this is an incredible volunteer opportunity. Please call (573) 874-6271 or email pw-volunteer@gocolumbiamo.com for details.

**RE-POST: Learn about trees at the MidMo Taproot Series!**

The Missouri Community Forestry Council and Columbia's Tree Task Force are proud to offer a series of seminars aimed at educating the general public about a variety of tree-related topics. These sessions will be a great way for you to come out and meet local Certified Arborists that are passionate about helping to teach you about the many benefits of trees. There will be door prizes and additional fun events planned at each event. There will be subject matter experts presenting in a variety of formats on specific subjects about trees that should be timely and informative.

**Weds Sept 16th at 6pm (Shakespeare’s Pizza South) - How to Prune Fruit Trees:** With the onset of fall weather our attention will focus on how to prune and care for fruit trees going into the winter months. While this session will have dedicated information about fruit tree pruning there will be additional information about pruning your other trees. **Register to attend here, it’s FREE for no food/drink, or $10 if you get 2 slices and a drink:**

http://midmotaproot.bpt.me/

Advanced training does not require a timesheet code – only volunteer hours require you to enter a timesheet code.

**NOTEWORTHY**

*See an interesting video or article online? Please share your link via email to mmndragonflyer@gmail.com, and it could end up in the next issue of the Dragonfly!*

- NASA's New Horizons' Amazing New Images of Pluto
- **Video:** Bear Falls Asleep in Florida Neighborhood After Big Meal
- **Video:** Bald Eagle Swims After Too Large of a Catch
- Scientists Predict Huge Earthquake in Pacific Northwest Within 50 Years
- **Video:** Deer Gives Birth to Twins in Oregon Backyard
- **Article:** Misunderstanding and Fear Surround Perceptions of Tarantulas
Thursday September 10th
CHAPTER PICNIC &
BIG MUDDY BOAT RIDES
6pm to Sundown at the Missouri River
Katfish Katy Campground

Please meet at EBCA at 5:45pm to carpool!
Carpooling was requested by Katfish Katie’s because of limited site parking.

Awesome Photo Credit from Last Year’s Picnic: Matt Boehner
(Springfield Plateau Chapter Class of 2009, Transferred to our Chapter in 2013)
Back by popular demand, the September meeting will be a field trip to Katfish Katy Campground (located about 5 minutes away from Eagle Bluffs Conservation Area).

**PICNIC:** All members will enjoy a picnic provided by the chapter. We will set up near the boat ramp by the river. A tent will be set up to provide shade if the weather dictates. Standard picnic fare will be served — hot dogs with fixin’s, potato chips, dessert, and tea/lemonade to drink. If you have special dietary restrictions, bring your own faux dog. Bring a lawn chair if you plan to sit down. We will discuss details at the August meeting if you would like to help with set-up and cooking and/or if you would like to bring a dish to share (not required!).

**BIG MUDDY BOAT RIDES (Launch Time is 6PM sharp!):** Members who sign up will go on a ½ hour boat trip with guides from the Big Muddy National Fish & Wildlife Refuge. Members can RSVP by emailing Suzanne Wright before Friday September 4th. Members of the Training Class of 2015 and those who have not experienced the boat ride on the river will have priority. Launch time is 6:00 pm sharp! If river levels allow, we will boat through Tadpole Island Chute and explore a sandbar. Appropriate field attire and footwear are recommended. If you have your own personal flotation device (PFD), please bring it. Big Muddy will provide a limited number of PFD’s for those without.

Members that sign up for the boat ride will receive 2 hours of Advanced Training, unless they have already been on the boat ride in a previous year. Advanced training does not require a timesheet code. Everyone can count 1 hour of service plus travel time for regular chapter meeting. The timesheet code for service/travel time is ADM.

### Missouri Master Naturalists

**Boone's Lick Chapter**

**2015 Officers**

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Email</th>
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</thead>
<tbody>
<tr>
<td>President</td>
<td>Robbie Scholes (Class of 2013)</td>
<td><a href="mailto:MMNblpresident@gmail.com">MMNblpresident@gmail.com</a></td>
</tr>
<tr>
<td>Vice President</td>
<td>Linda Karns (Class of 2011)</td>
<td><a href="mailto:MMNVicePres@gmail.com">MMNVicePres@gmail.com</a></td>
</tr>
<tr>
<td>Secretary</td>
<td>Jill Edwards (Class of 2013)</td>
<td><a href="mailto:MMNSecretary@gmail.com">MMNSecretary@gmail.com</a></td>
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<tr>
<td>Treasurer</td>
<td>Phebe McCutcheon (Class of 2011)</td>
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<tr>
<td>Advanced Training</td>
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<td>Communications</td>
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<tr>
<td>Hospitality</td>
<td>Sally Swanson (Class of 2006)</td>
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<tr>
<td>Public Relations</td>
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</tbody>
</table>

*Please Join Us on Facebook: Missouri Master Naturalist, Boone's Lick Chapter*
<table>
<thead>
<tr>
<th>Chapter Historian</th>
<th>Becky Bohlmeyer (Class of 2010)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Training Committee</td>
<td>Suzanne Wright (Class of 2005)</td>
<td><a href="mailto:frontdesk@pwarchitects.com">frontdesk@pwarchitects.com</a></td>
</tr>
<tr>
<td>Volunteer Opportunities &amp; Project Approval Committee</td>
<td>Phil Knocke (Class of 2006)</td>
<td><a href="mailto:MMNVolOpps@gmail.com">MMNVolOpps@gmail.com</a></td>
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</tbody>
</table>

**Chapter Co-Advisors**

Kent Shannon  
University Extension  
ShannonD@missouri.edu

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To promote awareness and citizen stewardship of natural resources through science-based education and community service.
Lincoln University Cooperative Extension (LUCE) presents the Native Plants Program (NPP) experience.

Dining Wild

To be held on the Lincoln University campus
Scruggs University Center • 820 Chestnut St.
Jefferson City, MO 65101

Saturday, August 29, 2015

Garden tours, exhibits and mixer 3 p.m. - 6 p.m.
Dinner and guest speaker 6 p.m. - 8 p.m.

Registration: $30.00 per person • RSVP by Monday, August 17

Please indicate your choice of vegetarian or non-vegetarian meal.
Send check with name, address, email and phone number payable to:

Lincoln University Cooperative Extension (LUCE) c/o Shirley Dowring
900 Chestnut Street, Allen Hall Room 102
Jefferson City, MO 65101

For more information, special accommodations, or if you are interested in having a booth, contact Natalie Benjamin: (573) 681-5581 • BenjaminN@LincolnU.edu or Nadia Navarrete-Tindall call (573) 681-5392 • Navarrete-Tindall@LincolnU.edu

A full course dinner prepared with native edible plants and locally grown meat and produce will be served. Menu includes appetizers, entrée, salad, side dishes, desserts and local wine samples.

Native Plants program

Lincoln University Cooperative Extension is an equal opportunity provider and employer.