NEXT MEETING
Thursday, January 10
6:30 p.m., MU Extension Building

Spiders!
Presented by Sarah Zukoff,
Ph.D., Entomology

There are lots of them, and they’re everywhere around us. Come learn about these fascinating arachnids!

Snacks to be provided by:
Drinks: Jackie Harris
Dessert: Susan Hazelwood
Non-dessert: Alice Havard and Matt Boehner
It’s Almost Training Time Again!

Your Key to discovering the Natural Missouri

Boone’s Lick Chapter
Spring 2013 Master Naturalist Training
Columbia, Boone County and Surrounding Areas

✈ February 5, 2013 - Class Orientation, 6:30-8:00 p.m. at the Eagle Bluffs Conservation Area Headquarters, 6700 W. Route K, Columbia, Missouri 65203 near McBain, MO.

✈ March 5th thru May 14th, Classes meet weekly on Tuesday nights, 6:00-9:00 p.m. at the Eagle Bluffs Conservation Area Headquarters, 6700 W. Route K - Saturday field trips will be included in the schedule.

✈ January 8, 2013 – Registration opens / February 12, 2013 - Registration deadline / Class fee - $95.00.

Participants receive natural resource based training from natural resource experts on topics including:

✈ Ecological Concepts
✈ Soils and Geology
✈ Forest Ecology
✈ Wildlife Management
✈ Agriculture and Conservation
✈ Aquatic Ecology
✈ Grasslands and Prairie
✈ Birds
✈ Caves and KarstAnd much more!

✈ Training includes resource materials and filing box.

✈ During and after training participants have the opportunity to assist with conservation service projects in their local area.

For more information or to sign up for the class contact:
http://extension.missouri.edu/boone/masternaturalist.aspx : downloadable registration packet
Kent Shannon, Natural Resource Engineer
Boone County University of Missouri
1012 N. Highway UU
Columbia, MO 65203
Phone: 573-445-9793
Fax: 573-445-9807
Email: shannond@missouri.edu

Master Naturalist is a partnership of the Missouri Department of Conservation and University of Missouri Extension

African Lion Population Drops Dramatically

Doesn't Look Good For Elephants, Either

But Tigers Are Making a Comeback

A Possible Solution For Hinkson Creek Pollution
http://www.columbiamissourian.com/a/156356/reforestation-seen-as-solution-for-hinkson-creek/

Yogi Bear Could Have Some Competition For Pic-a-nic Basket
http://www.grindtv.com/outdoor/blog/50499/unwanted+quest+in+florida+picnic+area+is+a+17-foot+burmese+python/

New Orchid Species Discovered

Dragonflies Have Amazing Powers of Concentration

Oahu Dissolving From The Inside Out

Scientists Find Some Strange Things

Cute, But Dangerous

Stunning Micro-Photos

First-Ever Direct Photos of DNA

One Brave (Or Foolhardy) Squirrel
AmeriCorps Vista Opportunity at Lincoln University!!

The person selected will help establish native plants in an urban farm, among other things, as part of a new project. Here is the link for more information: https://my.americorps.gov/mp/listing/viewListing.do?id=48085&fromSearch=true. The deadline to apply is January 11, 2013.

UPCOMING EVENTS

Big Muddy Speaker Series
At Les Bourgeois Winery in Rocheport. For directions to the meeting place, check the website: http://www.riverrelief.org/updates/entry/big-muddy-speaker-series-rocheport/. The speaker series qualifies as advanced training.

January 8, 2013 - "Monitoring Birds on the Missouri River" - Ethan Duke, the Missouri River Bird Observatory

TreeKeepers Training with City of Columbia

Online registration is necessary and can be found on the TreeKeepers webpage, along with more information. Class Schedule for 2013:
- Tuesday, February 19th, 6:00pm-8:30pm
- Thursday, February 21st, 6:00pm-8:30pm
- Saturday, February 23rd, 9:00am-12:00noon

Volunteers are expected to attend all 3 sessions. All Classes are held at the ARC, 1701 West Ash.

Missouri Natural Resources Conference

January 30 - February 1, 2013, at the Tan-Tar-A Resort at Osage Beach
Theme: "Conservation Pays: Exploring the Social and Economic Impacts"
Workshops, Paper Sessions, and the agenda are posted at www.mnrc.org.

Online registration (credit card or hardcopy) is open for attendees and exhibitors at www.mnrc.org/registration.html. Early Bird registration ends 1/9/13.

Register for the conference and make your reservation (www.tan-tar-a.com/, Group ID code "mnrc").

Kim Worth - MNRC 2013 Chair
USDA, NRCS, MLRA Project Office
209 Ash Street
Gallatin, MO 64640-1185
660-663-3703 x7
660-663-3697 fax
kim.worth@mo.usda.gov
Floods and Droughts: Agriculture, Agroforestry and Natural Resources in a Changing Climate

**Schedule of Events**

**9:00-10:00 a.m.**  
Extreme weather events: implications for the Midwestern farmscapes  
*Dr. Christopher Anderson, Assistant Director, Iowa State University Climate Science Program*

**10:00-10:30 a.m.**  
The science of drought and flood prediction  
*Dr. Anthony Lupo, Professor and Chair, Department of Soil, Atmospheric and Environmental Sciences, University of Missouri*

**10:30-11:00 a.m.**  
Floodplains, flood mitigation, and ecosystem services  
*Dr. Robert Jacobson, Branch Chief, River Studies Branch, US Geological Survey*

**11:00-11:30 a.m.**  
Physiology of root growth under water deficits – A critical but understudied component of adaptation to drought  
*Dr. Robert Sharp, Professor and Director, Interdisciplinary Plant Group, University of Missouri*

**11:30-12:00 p.m.**  
Drought-resilient grazing systems  
*Dr. Wm. Justin Sexton, Division of Animal Sciences, University of Missouri*

**Lunch Break (12:00 -1:30 pm)**

**1:30 -2:00 p.m.**  
Drought and flood tolerance of alternative energy crops  
*Dr. Sougata Bardhan, Postdoctoral Research Associate, The Center for Agroforestry, University of Missouri*

**2:00-2:30 p.m.**  
Floodplain forests: flood attenuation, landscape connections and energy solutions  
*Dr. Jason Hubbart, Assistant Professor, Department of Forestry, University of Missouri*

**2:30-3:00 p.m.**  
Flooding and drought: designing agroforestry systems to create ecosystem resilience  
*Dr. Ranjith Udawatta, Associate Research Professor, Department of Soil, Atmospheric and Environmental Sciences and The Center for Agroforestry, University of Missouri*

**Coffee Break (3:00-3:30 pm)**

**3:30-4:00 p.m.**  
Using perennial vegetative filter strips to mitigate veterinary antibiotic loss  
*Dr. Keith Goyne, Associate Professor, Department of Soil, Atmospheric and Environmental Sciences, University of Missouri*

**4:00-4:30 p.m.**  
The socioeconomic realities of recent floods and droughts  
*Dr. Pat Westhoff, Professor and Director, Food and Agricultural Policy Research Institute (FAPRI), University of Missouri*

**4:30-5:30 p.m.**  
Research poster session

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**The Center for Agroforestry**

University of Missouri  
A Global Center for Agroforestry, Entrepreneurship and the Environment

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**Free and open to the public!**

January 9th, 2013 | 9:00 a.m. - 5:30 p.m.  
Jesse Wrench Auditorium  
University of Missouri Memorial Union

RSVP at 573-884-2874, or email elliottl@missouri.edu by Jan 5, 2013.
For updated information on advanced training opportunities, please see the online Chapter calendar at http://extension.missouri.edu/masternaturalist/columbia. To submit an opportunity for advanced training consideration, use the form on the chapter website and email it to MMNATrain@gmail.com.

The Missouri Master Naturalist state website periodically posts advanced training and volunteer opportunities offered throughout the state and open to all MMNs. To view these postings, go to the state website at http://extension.missouri.edu/masternaturalist and click on the link “For Volunteers.” State Advanced Training is also posted on our chapter calendar.

For updated information on volunteer opportunities, please see the online calendar on the chapter website at: http://extension.missouri.edu/masternaturalist/columbia/. 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 Service Project Form (available at http://extension.missouri.edu/masternaturalist/columbia/Projectapproval.htm) and email it to MMNVolOpps@gmail.com for consideration. You will be notified via e-mail if there are any questions about the project or notified of its approval. Once approval is granted for any person, it is approved for everyone, so it is only necessary to submit one form per project.

Columbia Crawdads Stream Team Cleanup (code COC)

Sat, January 12, 2013, 8am – 11am
Location TBD
Be part of a group of like-minded citizens lending a hand to make Columbia cleaner by picking up litter at these events held the 2nd Saturday morning of each month. Beforehand, staff will identify and communicate to those who register the following: the area to be cleaned, the place to meet and the start time. Each cleanup will be different – streets and/or streams will be cleaned. A fellow volunteer will lead you in this pro-environment effort and will bring the supplies you’ll need! If interested, contact Lisa Rohmiller, 874-7499, or email her at volunteer@gocolumbiamo.com to get on the contact list.
### 2013 Officers

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Email</th>
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<tbody>
<tr>
<td>President</td>
<td>Emily Wilson</td>
<td><a href="mailto:mmnblpresident@gmail.com">mmnblpresident@gmail.com</a></td>
</tr>
<tr>
<td>Vice President</td>
<td>Becky Bohlmeyer</td>
<td><a href="mailto:MMNATrain@gmail.com">MMNATrain@gmail.com</a></td>
</tr>
<tr>
<td>Secretary</td>
<td>Pat McDonald</td>
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<tr>
<td>Treasurer</td>
<td>Stacy Barr</td>
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<tr>
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<tr>
<td>Advanced Training Co-Chair</td>
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<tr>
<td>Project Approval &amp; Volunteer</td>
<td>Chris Egbert</td>
<td><a href="mailto:MMNVolOpps@gmail.com">MMNVolOpps@gmail.com</a></td>
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<tr>
<td>Opportunities</td>
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<tr>
<td>Communications Committee</td>
<td>Nancy Bowles</td>
<td><a href="mailto:MMNDragonflyer@gmail.com">MMNDragonflyer@gmail.com</a></td>
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<tr>
<td>Hospitality Committee</td>
<td>Jeanie Scott-Pillen</td>
<td><a href="mailto:jeaniesp@mchsi.com">jeaniesp@mchsi.com</a></td>
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### Chapter Co-Advisors

- **Kent Shannon**  
  University Extension  
  ShannonD@missouri.edu

- **Bob Pierce, Interim Co-Advisor**  
  Universe Extension  
  PierceR@missouri.edu

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### NEXT MEETING

**Thursday, February 14**

6:30 PM  
MU Extension Bldg  
Program TBD

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To promote awareness and citizen stewardship of natural resources through science-based education and community service.