**NEXT MEETING**

**Thursday, September 12**

**6:30 PM**

MU Extension Building

**Philip Marley, GIS Specialist with MDC**

“Tracking Black Bears in Missouri”

Understanding animal location data provides insight into movement patterns, habitat use and home range, which are vital for understanding and managing a given species. But how do you go about getting this location data, especially with a BEAR? Come find out how MDC tracks black bears in Missouri...and how you can track the bears as well!

**Drinks:** Phebe McCutcheon  **Non-dessert:** Joy Rushing  **Dessert:** Emily Wilson

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**PRESIDENTIAL PONDERINGS**

Emily Wilson

Quick test: what plant’s siliques split at maturity in August, releasing seeds with a 20-month dormancy period? Answer: Garlic Mustard—*Alliaria petiolata*. A native of Europe and Asia, it was brought to the U.S. in the early 1800’s as a pot herb. Like so many other plants and animals brought here, there are no native deterrents to keep it in check. Garlic mustard has been found in Missouri since the 1970’s. This invasive plant can grow in shade, full sun, uplands, floodplain, forest, savannas and along roadsides. About the only place it isn’t happy is in acidic soil. Garlic mustard lives up to its name, giving off an odor of garlic from all parts of the plant. *Information from the MDC invasive plant guide.*

If you submit photos for the advanced training calendar contest, would you please send a digital copy of your submissions to me? I’d like to have the file ready to go to the printer as soon as possible after the winners are selected. You may also bring them on a disk or jump drive to the meeting Thursday, Sept. 12. In advance, thank you for all the submissions and support you have provided to the State Meeting Committee.
NOTEWORTHY

Pied-billed grebes soon to descend on Mid-Missouri
http://www.columbiatribune.com/sports/pied-billed-grebes-soon-to-descend-on-mid-missouri/article_9b5eef6-023d-11e3-814f-10604b9f6eda.html

‘Turducken’ of the sea—scientists off Delaware catch shark within a shark

2013 Perseid meteor shower photos from Flickr

NASA maps dangerous asteroids that may threaten Earth

Alien planet eclipse seen in x-ray light: a cosmic first

Adorable new mammal species found 'in plain sight'

Wow! Curiosity captures 2 Mars moons together in stunning NASA video

Explore an underwater volcano live in HD

Bugs...up close and personal

It’s not nice to fool (with) Mother Nature

Dozens of bizarre new ant species discovered

Strangest plants: from Corpse Flower to Doll’s Eyes

As Antarctic Sea ice melts, seaweed smothers seafloor
http://weather.yahoo.com/antarctic-sea-ice-melts-seaweed-smothers-seafloor-172358149.html

Bearly newborn: 7 photos of the cutest baby panda!
Mark Your Calendar for the 2013 State Conference in Columbia

The one-day conference will feature a full schedule of activities, including lunch. All sessions qualify as advanced training. You should have received your registration packet. If not, see the registration form below. Conference t-shirts will also be available for all BL members, with a “non-conference” version for those who don’t plan to attend. Please contact Sally Swanson at embroiderit@socket.net for ordering information. You won’t want to miss this conference!

See Your Work In Print! Enter the Photo Contest!

Boone's Lick MMN will be holding a chapter photo contest to select photographs for a pocket calendar containing months October 2013 through December 2014. The calendar will be included in the welcome packets given to the Missouri Master Naturalists attending the State Advanced Training Event Saturday, October 5, 2013, hosted by the Boone's Lick Chapter.

Photos must be taken by any 2013 Boone's Lick Chapter trainee working toward certification or any actively volunteering BL chapter member who logged hours in 2012 and/or is working toward certification/recertification in 2013. Each member may submit three (3) photos which have been taken within the state of Missouri during the time the photographer was an actively volunteering Boone's Lick Chapter member. Winning photos from previous MMN State Conferences will be accepted. An independent panel will select the photos for each of the fifteen (15) months in the AT calendar.

Photos must be submitted by 6:30 pm September 12, 2013, at the MU Extension office. Submissions must be printed on 8” x 10” photo-quality paper with name, phone, email address and location where the photo was taken listed on the back. Horizontal photos are better suited because of calendar formatting.
Nature’s Path
A DAY OF DISCOVERY
Missouri Master Naturalist Advanced Training Event
October 5, 2013 • Columbia, Missouri

Registration Form

Please use this form to register for the Master Naturalist advanced training event Nature’s Path A Day of Discovery October 5, 2013 in Columbia. Submit a separate registration form for each Master Naturalist. A $15 registration fee, which includes lunch, is required for each participant. Additional fees apply to the canoe session. Registrations will not be accepted after September 18, 2013. If you cancel on or before September 21 you will receive a full refund.

For questions about the event or registration contact Syd Hime, Missouri Department of Conservation, 573-522-4115 extension 3370, syd.hime@mdc.mo.gov.

Mail registration form and payment to:
Master Naturalist Advanced Training
Attn: Shelli Cannon
Missouri Department of Conservation
PO Box 180
Jefferson City, MO 65102

Please make checks payable to Missouri University Extension.

Please print legibly

Name

Mailing address

City

State

Zip code

Daytime phone

Email address

Master Naturalist Chapter

Lunch Selection (check one)
The menu includes sandwiches, a selection of sides, cookies, ice tea and lemonade. Please select your choice of sandwich.

___ Chicken breast
___ Pulled pork
___ Veggie roll-up
Session Selection

Please indicate your first and second choice for both the morning and afternoon sessions. Failing to do so will delay your registration process. Every attempt will be made to give you your first choice. The sessions will be assigned on a first come, first serve basis. They are expected to fill-up fast so register early! A registration confirmation with your assigned sessions and directions to all event locations will be sent to you two weeks prior to the conference.

Saturday, October 5

9–11 a.m. Concurrent Session I
Indicate your 1st and 2nd choice

____ Photographing Nature - Fr. Tolton Catholic High School
____ Raptor Rehabilitation Project – MU Campus
____ Return of the Pallid Sturgeon - Fr. Tolton Catholic High School
____ Spiders Everywhere! - Fr. Tolton Catholic High School
____ Tour of the Stars – Rock Bridge High School
____ University of Missouri Campus Tree Walk – MU Campus

11 a.m – 2 p.m. Luncheon (included with registration)
Travel to Fr. Tolton Catholic High School, enjoy lunch and networking time, travel to location of your afternoon session.

2–4 p.m. Concurrent Session II
Indicate your 1st and 2nd choice

____ Big Muddy National Wildlife Refuge – Katfish Katys
____ Canoe the Mighty Mo – Kat Trail Bed and Bikefest, Rocheport
   Note: This session has an additional $20 fee. If this is your first or second choice please include the additional $20 fee. If you are not assigned to this session the $20 fee will be refunded to you. The canoe trip concludes at 6 p.m.
____ The Intricacies of Karst – Rock Bridge Memorial State Park
____ Missouri Pollinators – Fr. Tolton Catholic High School
____ Prairie Ecology: Management and Reconstruction - Fr. Tolton Catholic High School and Prairie Fork Conservation Area
____ Schnabel Woods Natural Area – Kat Trail parking lot outside McBaine
____ Wetland Ecology and Turtle Monitoring – Eagle Bluffs Conservation Area

Optional Activities
To give event planner's an estimated attendance please indicate your interest in attending either one or both of these activities.

____ Friday pizza party at Shakespeare’s Pizza, 5:30–9 p.m.
____ Saturday bird watching at Rock Bridge Memorial State Park starts at 7 a.m.

Summary Table (Please make checks payable to Missouri University Extension.)

| Event registration | $15.00 |
| Canoe trip | $20.00 |
| T-shirt indicate size | S, M, L or XL - $14.00 | 2X - $16.50, 3X - $17.50 | $ |
MPF Annual Dinner


Evening on the Prairie

Saturday, Oct. 12, near Cole Camp, MO. Hosted by Missouri Prairie Foundation and Hi Lonesome Chapter of MMN. MPF annual meeting will be held at 4:30 p.m., with complimentary wine and cheese reception following at 5:00. Event is free, but a $5-10 donation is suggested. Free camping is available Friday and Saturday nights. For a complete schedule of events on the prairie, please visit www.moprairie.org.

ADVANCED TRAINING OPPORTUNITIES

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.

Big Muddy Speaker Series

September 10, 2013 - "Building a Natural Legacy in Boone County" - Roger Still, Audubon Missouri. For directions to the meeting place, check the website: http://www.riverrelief.org/updates/entry/big-muddy-speaker-series-rocheport/

Saturday Morning Science at Mizzou

10:30-11:30 a.m., Monsanto Auditorium, Bond Life Sciences Center, Rollins Rd. and College Ave.

“How Old Is a Rock?” Sept. 21. Allen Whittington, Geological Sciences. Learn about the rock cycle, the history of attempts to determine the age of Earth, and how scientists finally measured the age of Earth at 4.55 billion years.

“Food Insecurity: Tracking Plant Disease Epidemics in the U.S.” Oct. 5. Jim Schoelz, Plant Sciences. Our food supply is under constant pressure from microorganisms. This talk will focus on the impact of past and present plant disease epidemics on our landscape and our food supply.

“Bugs, Burns and Beauty: Managing the Forests of Rocky Mountain National Park.” Nov. 9. Jerry Frank, History. Americans have long used notions of picturesque beauty and ecology to imagine the forests of the American West. The result is a patchwork landscape that is both a cultural and natural creation.
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.

**VOLUNTEER OPPORTUNITIES**

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 email 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)**

**Saturday, Sept. 14, 8am – 11am**
Lend a hand to make Columbia cleaner by picking up litter at these events held the 2nd Saturday morning of each month. A fellow volunteer will lead you and will bring the supplies you’ll need! To register, please click on this link: http://www.gocolumbiamo.com/Volunteer/

**Prairie Seed Collection (Code MDC)**

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. To be included on the list, please contact him at chris.newbold@mdc.mo.gov.

Sept. 28 - Saturday – Diggs Area
October 12 – Saturday – Rocky Fork CA
October 13 – Sunday– Prairie Fork or Auxvasse Glade
EDDMapS (Early Detection & Distribution Mapping System) for Invasive Species
(Replace Code 2 with EDDMS)

**Ongoing.** Enter information from observations of invasive species into a standardized online data form, including information about infestation, location and photos. Remove or treat the invasive species found, monitor re-occurrence and report monitoring efforts and follow-up treatment. **MMN volunteer hours would count only for observations made with the state of Missouri.**

**Garden Maintenance At EBCA and MMN Adopt-a-Spot**

**Ongoing. Eagle Bluffs CA Headquarters. (Code MDC)** Weed and water if needed in the Boone’s Lick MMN garden on the west side of the building and/or the Eagle Scout garden on the east side. The rains this year have resulted in a bumper crop of weeds, so if you’d like to help control them, stop by any time. There is a white board inside the information room at the headquarters building. If you come by to volunteer, please write down your name, when you were there and what you did. Be sure to make a note of any wildlife you spot while you’re there!

** Adopt-a-Spot, State Farm Parkway Recycling Drop-Off Center. (Code COC)** There is no water source here, but weeding volunteers are always welcome! If you’re interested in helping, please contact Jane Fore at jfore@centurytel.net.

**Care for Creation Community Garden (Code CG)**

**Ongoing through the harvest season. Located behind Beth Shalom Synagogue, 500 Green Meadows Road.** Plant, water, weed and harvest fruits and vegetables to be donated to the Columbia Food Pantry and other charities that feed the needy. Works days are scheduled each Sunday morning for about two hours, and each Wednesday morning. For more information, please contact Lily Chan, lilyhchan@gmail.com or Mary Beth Litofsky, marybethlitofsky@aol.com.

**Missouri River Relief Cleanups**

**October 5--KC Big Muddy Cleanup in Sugar Creek, 9 a.m.-noon.** Registration begins at 8:30. La Benite Park, Sugar Creek. I-70 to 291 Highway North to the park, just east of the Missouri River Bridge. For more information or to pre-register online, please visit http://www.riverrelief.org/event/kansas-city-missouri-river-clean-up/.

**October 19--Hartsburg Missouri River Cleanup, 9 a.m.-noon.** Registration begins at 8:30 at the MDC public boat access in Hartsburg. The boat ramp is 17 miles south of Columbia. Take Highway 63 to Route A. Drive 3.5 miles to the south end of Hartsburg, take a right and follow the River Road west for 2 miles. For more information or to register online, please visit http://www.riverrelief.org/event/hartsburg-missouri-river-clean-up-2013/. 
2013 Officers

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<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Email</th>
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<tbody>
<tr>
<td>President</td>
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<td>Vice President</td>
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<td>Treasurer</td>
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<td>Project Approval &amp; Volunteer Opportunities</td>
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Chapter Co-Advisors

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Bob Pierce, Interim Co-Advisor
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NEXT MEETING
Thursday, October 10
6:30 PM
MU Extension Building

Casey Holliday, Ph.D.
Department of Pathology and Anatomical Sciences, University of Missouri

Vertebrate paleontologists rely on fossils to tell the story of Earth’s history and the animals that live on it, but recent technology has enabled them to explore the structure and function of animals in ways never before imagined. Come learn about classical and modern approaches to understanding the history of life with an emphasis on crocodilian and dinosaur biology.

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