



## HONORS and AWARDS



The Missouri Department of Conservation and the Missouri Conservation Heritage Foundation recognized **Bob Pierce** (on behalf of fisheries and wildlife educational programming representing MU Extension); **Mike Gold** (leadership at the MU Center for Agroforestry); **Shibu Jose** (the School of Natural Resources); and, **Tony Thorpe** ( the Lakes of Missouri Volunteer Program) at the “Conservation Partners” awards program and celebration. The program was held in conjunction with an event that celebrated the 80<sup>th</sup> Anniversary of the Missouri Department of Conservation and the 20<sup>th</sup> Anniversary of the Missouri Conservation Heritage Foundation. Also pictured is Sara Parker Pauley, Director, Missouri Department of Conservation.



### 2018 Top Online Colleges for a Master's in Environmental Science

This list shows schools offering online master's degrees in environmental science and ranks the best overall combination of academic excellence and low tuition. Ranked at #1, the University of Missouri has a strong academic strength rating of 74% and offers a Master of Science in Natural Resources - Agroforestry for the lowest annual tuition of \$5,400. Southern Methodist University offers an M.S. in Environmental Science for \$20,250 annually, with a notable academic strength score of 82%.

View our [methodology](#) for more details or learn more about SR Education Group.

All tuition numbers were manually collected and verified

Rank	School	Annual Tuition	Academic Strength
→ #1	University of Missouri	\$5,400	74%
#2	Auburn University	\$6,525	73%
#3	Colorado State University-Fort Collins	\$6,850	72%
#4	Southern Methodist University	\$20,250	82%
#5	University of Wisconsin-Stevens Point	\$8,769	64%
#6	University of Alabama at Birmingham	\$14,925	73%
#7	Nova Southeastern University	\$12,410	69%
#8	Slippery Rock University of Pennsylvania	\$7,650	61%
#9	Troy University	\$7,410	61%
#10	University of Wisconsin-Stout	\$12,326	64%

<http://www.guidetoonlineschools.com/degrees/environmental-science#best-value-masters>

**The University of Missouri is ranked #1 in the 2018 Top Online Colleges for Master's in Environmental Science!** This ranking is based on value. Analysis was conducted of accredited online schools across the nation, taking into consideration academic strength factors along with manually researched tuition rates in order to provide a list of colleges offering the best value to students. Inclusion on this list shows high academic standards and a commitment to affordability, two key factors important to prospective students. The full list is available here: <http://www.guidetoonlineschools.com/degrees/environmental-science#best-value-masters>". This recognition is based on the Master of Science in Natural Resources (Agroforestry Emphasis) online program. Within a short period of five years, this new SNR online MS program has admitted 74 students and graduated 21.

## PRESENTATIONS/PUBLICATIONS/RESEARCH HIGHLIGHTS

**Steve Lyczak** (MS student) presented a poster at the International Union of Forest Research Organizations (IUFRO) conference “Restoring Forests: Regeneration and Ecosystem Function for the Future” in Lund, Sweden, September 12-15, 2017. Steve’s poster titled “Survival and growth of 1-0 *Pinus echinata* seedlings relative to planted and natural hardwoods for restoration” featured some of his MS research focused on developing methods for assessing the performance of planted shortleaf pine seedlings in natural stands and in stands used for silvopasture. Steve is advised by **John Kabrick** and committee members **Ben Knapp**, **Dave Larsen**, and Grant Elliott (Geography). His research is supported by the MU Wurdack Research Center Board and by the US Forest Service, Northern Research Station. (Submitted by and photo by John Kabrick.)



Montane, F., A.M. Fox, A.F. Arellano, N. MacBean, M.R. Alexander, A. Dye, D.A. Bishop, V. Trouet, F. Babst, A.E. Hessel, N. Pederson, P.D. Blanken, G. Bohrer, C.M. Gough, M.E. Litvak, K.A. Novick, R.P. Phillips, **J.D. Wood**, and D.J.P. Moore. Evaluating the effect of alternative carbon allocation schemes in a land surface model on carbon fluxes, pools and turnover in temperate forests. *Geoscientific Model Development*, 10:3499–3517.

**Paukert, C.**, and **G. Lindner**. Potential for conservation lands in Middle Mississippi River floodplains to mitigate flood flows for ecosystem services. U.S. Geological Survey, Science Support Partnership, \$233,520 (2017-2020)

**Byrne, M.**, and **C. Paukert**. Winter Aggregation Potential of Grass Carp in Truman Reservoir. U.S. Geological Survey, Columbia Environmental Research Center, \$78,570 (2017-2020)

Vaudo, J.J., **M.E. Byrne**, B.M. Wetherbee, G.M. Harvey, A. Mendillo Jr., and M.S. Shivji. 2017. Horizontal and vertical movements of white marlin, *Kajikia albida*, tagged off the Yucatán Peninsula. *ICES Journal of Marine Science*. doi:10.1093/icesjms/fsx176

## EVENTS/MEETINGS/ANNOUNCEMENTS



Before the MU-Auburn game last weekend, MU Provost Garnett Stokes and Auburn Provost Timothy Boosinger discussed collaborative efforts with faculty and students committed to tiger conservation. Pictured above from left to right: Dr. **Matt Gompper**, MU Rucker Professor of Wildlife and Faculty Advisor for MU Tigers for Tigers, Dr. Carolyn Henry, Interim Dean, MU College of Veterinary Medicine, Dr. Garnett Stokes, MU Provost, Mr. **Bruce Loewenberg**, MU Alum, Tigers for Tigers Champion and Benefactor, Ms. **Shannon McKinley**, MU Student and President, MU Tigers for Tigers, Dr. Timothy Boosinger, Auburn Provost and Dr. **Shibu Jose**, Director, MU School of Natural Resources. For more of the story, see the MU news release: <http://munews.missouri.edu/.../0921-universities-rally-toget.../> (Photo by **Michael Byrne**.)

Horticulture & Agroforestry  
Research Center

# MISSOURI CHESTNUT ROAST

Saturday, October 7, 2017  
10 a.m.-4 p.m.  
New Franklin, Mo.



*The University of Missouri Center for Agroforestry will host its 11<sup>th</sup> annual Missouri Chestnut Roast on Saturday, Oct. 7! The beautiful, rolling Missouri River hills and historic Thomas Hickman House are a backdrop for a festival celebrating all Missouri specialty crops, but most importantly, the chestnut!*

**Join Us For**

*Free and Open to the Public!*

**Samples of roasted chestnuts**

Historic Hickman House tours: 10:30 a.m., Noon, 1:30 p.m.

Walking tours 11:30 a.m. and 1:30 p.m.

Educational booths and demos

Kids' Activities

Live music by The Flat Mountain Boys

Farm tours by Wagon

Cooking demos by Larry Roberts, State Coordinator for Eating from the Garden

Lunch available from New Franklin School Clubs

Shop and see local artists and crafters

"Migratory Birds & Their Habitat," by Lisa Webb, MU Wildlife Professor, 10:15 am

"Elderberry Production," by Terry Durham, River Hills Harvest, 11 am

"Health Benefits of Black Walnuts," by Danh Vu, Research Specialist, Center for Agroforestry, 11:45 am

"History of Grapes in America," by Madeline Wimmer, MU Vitaculture Research Specialist, 12:15 pm

"Sensitivity of Various Tree and Ornamental Species to Spray Drift from 2,4-D and Dicamba" Brian Dintelmann, MU Masters Candidate Plant, Insect/Microbial Science, 1 pm

"Forest Farming & Mushroom Growing Demo, Gregory O. Mori, Center for Agroforestry, 2 pm

"Health Benefits of Black Walnuts," by Danh Vu, Research Specialist, Center for Agroforestry, 2:45 pm

Whiz-Bang Science Show performed by Sougata Bardhan. A family-friendly show of amazing, inspiring, and captivating features of science at Noon and 2:00 pm

 Center for Agroforestry  
University of Missouri

10 Research Center Road  
New Franklin, MO 65274

For more information, call  
573-884-2874

Or visit  
harc.cafnr.org  
centerforagroforestry.org  
facebook.com/centerforagroforestry

**Directions**

**From Columbia**

- Go west on I-70 to Exit 121 (Fayette/Hwy 40) and exit right.
- Stay on Hwy 40 until you see New Franklin/Hwy 5 turnoff to right.
- Take Hwy 5 into New Franklin about 1 mile to 4-way stop.

**From Boonville**

- Exit I-70 at Boonville Exit 101 for Hwy 5.
- Take Hwy 5 through Boonville.
- After crossing bridge, look for New Franklin/Hwy 5 turnoff to left.
- Continue on Hwy 5 into New Franklin about 1 mile to 4-way stop.

**From 4-way stop in New Franklin**

- Turn left onto Broadway, go .5 mile.
- Turn left by carwash to continue on Broadway until you see signs for HARC.

**Chestnut Roast Volunteers Needed!** The Center for Agroforestry is looking for volunteers for our 11<sup>th</sup> annual Chestnut Roast on October 7<sup>th</sup>. This is a fun event that showcases the Chestnut and other Missouri specialty crops at the beautiful Horticulture and Agroforestry Research Center in New Franklin, MO. We are looking for volunteers to direct traffic, paint faces, operate microwaves, man the registration table, help vendors to unload and load their gear, and clean-up! Volunteers are needed between 8:30 AM and 5:30 PM. Those who volunteer for at least two hours will receive a complimentary lunch ticket and a t-shirt! Please contact **Michelle Olthoff** at [olthoffm@missouri.edu](mailto:olthoffm@missouri.edu) if you are available to volunteer, or if you would like more information.

**Prairie Fork Update:** We have had three Edward Jones groups visit this month along with hosting a wildlife meeting with the Missouri Department of Conservation. Also Scout Troop 949 came out and did a service hours. (Submitted by **Amber Edwards**.)



The Parks, Recreation and Sport program earned re-accreditation at the National Recreation and Park Association Conference this week in New Orleans. The PRS program was recognized during the 'Best of the Best Ceremony,' at the conference where Dr. **David Vaught**, Program Coordinator and Ms. **Jennifer Upah**, Assistant Teaching Professor received official documentation from the Council on Accreditation. Mizzou's program remains

the oldest accredited program in the United States at 41 years old. Pictured above are: **Jason Young**, Internship Coordinator, **Ellen Morris**, Internship Coordinator, Dr. **Sonja Wilhelm-Stanis**, Graduate Emphasis Area Coordinator, Jennifer Upah, Assistant Teaching Professor and Dr. David Vaught, Program Coordinator. (Submitted by Ellen Morris.)

**QUANTITATIVE METHODS WORKSHOP:** Dr. Rachel Blakey is a post-doctoral research assistant working with Dr. Lisa Webb and will offer a workshop in Quantitative Ecology from 8:30-11:00 on the October 12<sup>th</sup>. Description of what the workshop will cover and what you would need to bring is below – please note that we aren't able to offer class credit for the workshop but this is a great opportunity to learn some advanced quantitative methods and analyze your own data with someone there to help. This opportunity is open to graduate students, staff and faculty and there are limited seats available - please email Lisa Webb ([webbli@missouri.edu](mailto:webbli@missouri.edu)) before October 5th if you would like to sign up. Adventures in Quantitative Ecology Workshop: analysis methods for community ecology and an introduction to mixed effects modeling (October 12 8:30-11:00).

We will cover two broad areas in this two-hour workshop: analysis techniques for multivariate data used in community ecology and an introduction to using mixed-effects modeling to account for nested data. In hour one, we will be working with data with multiple response variables, e.g. counts of many different species in a community (multivariate data). We will learn about common properties of multivariate data, ways to visualize these data (including ordination) and how to test hypotheses about community ecology. In hour two, we will work with nested datasets and discover how we can use mixed effects modeling to account for temporal or spatial correlation in our data. We will learn assumptions, common pitfalls and different types of mixed effects modeling. For both sessions, we will discuss interpretation of our results, model evaluation and how to present our findings in an ecological journal. We will use the R statistical program environment within the handy Rstudio program. You will need to have these both up and running on your laptop computer before the workshop starts, and install the following packages: *ggplot2*, *lme4*, *lmerTest*, *glmmADMB*, *MCMCglmm*, *mvabund* and *vegan*. For info on how to get started, see: <http://environmentalcomputing.net/installing-r-r-studio/>. Info on how to install the *glmmADMB* package is here: <http://glmmadmb.r-forge.r-project.org/>.

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