The School of Natural Resources has been hosting a visiting student from Pakistan for the past several months. Ms. Rukhsana Khatoon is a Ph.D. student at PMAS-University of Arid Agriculture in Rawalpindi. Her dissertation research focuses on the wildlife of the newly established Murree-Kahuta-Kotli Sattian National Park, with a particular focus on understanding the distribution of carnivore species in the region, and understanding the diet of these species and how they interact with people living on the borders of the park. Towards this goal, Ms. Khatoon has been working with the Gompper lab in SNR and the Eggert lab in Biological Sciences. (Submitted by Matt Gompper; Photo by Kris Budd.).
The United Nations’ Economic Commission for Europe, jointly with the Food and Agriculture Organization of the United Nations, released the report titled “Wood Energy in the ECE Region: Data, trends and outlook in Europe, the Commonwealth of Independent States and North America”, available online at https://www.unece.org/fileadmin/DAM/timber/publications/SP-42-Interactive.pdf. Francisco Aguilar led the team of experts; former post-doc and current Missouri State University Assistant Professor, Michael Goerndt contributed to the publication along other 20 coauthors from across North America, Europe and the Russian Federation. John Kabrick with the US Forest Service was among the experts who reviewed the publication. See press release at the link below: Wood energy is no sleeping giant, say UNECE/FAO experts https://www.unece.org/?id=48676 (Submitted by Francisco Aguilar.)

EVENTS/MEETINGS/ANNOUNCEMENTS

The time of the service for Rochelle Renken and Mike Huffman has now been set from 5pm to 9pm on August 3rd. A program will begin at 6pm with prayers, tributes, remembrances, readings and story-telling hosted by Vince Travnichek. Friends, family and colleagues will have an opportunity to share short stories during this program. Light hors d’oeuvres & drinks will be provided after the program along with music that is special to the families. If you are attending the service, please introduce yourself to the families; they are amazed at how many people Rochelle and Mike have known, influenced and touched over the years. As always, please feel free to share this information with others who knew Rochelle and Mike. (Submitted by Kim Devine, Missouri Department of Conservation.)

If you are so inclined, the following memorials have been suggested by the families:

Alaska Search & Rescue Association (alaskasar.org)
P.O. Box 233276
Anchorage, AK 99523
alaskasar@gmail.com

Conservation Federation of Missouri (ConFedMo.org)
728 W. Main
Jefferson City, MO 65101-1559
573/634-2322

A stone bench/memorial plaque placed on an MDC or other property
Pat Heglund
217 15th Street South
LaCrosse, WI 54601
608/317-7850

Wildland Firefighter Foundation (give.wffoundation.org)
2049 Airport Way
Boise, ID 83705
208/336-2996
CAFNR TIGER CLASSIC

SPONSORSHIP OPPORTUNITIES
Deadline to sponsor is August 24, 2018

- Titanium Sponsorship - $2,500
  Includes special promotional signage, registration for
  4 golfers, 4 mulligans, 4 skirts and 4 Steak Fry tickets

- Gold Sponsorship - $1,000
  Includes special promotional signage, registration for
  2 golfers and 2 Steak Fry tickets

- Silver Sponsorship - $500
  Includes special promotional signage, registration for
  1 golfer and 1 Steak Fry ticket

- Bronze Sponsorship - $200
  Includes special promotional signage

  I would like to sponsor ___ student(s) at $110 each

Sponsor Contact Information
Sponsor Name: ____________________________
Address: ________________________________
Phone: __________ Email: ________________

GOLF PACKAGES
Deadline to register is August 31, 2018

- Single Golfer - $110 per golfer includes green fees,
  cart use, lunch and Steak Fry ticket.

- Foursome Package - $440 per foursome includes green
  fees, cart use, lunch and a Steak Fry ticket for each player

- Sign my team up for all extras (skirts, strings, mulligans) - $100
  Additional games and activities will be available the day of the tournament

Additional Steak Fry Tickets
- Please provide me with ___ additional adult Steak Fry tickets for $20 each
- Please provide me with ___ additional children’s Steak Fry
tickets for $10 each

Steak Fry tickets after August 31, are $25/adult and $15/child

PAYMENT
Enclosed please find a check for $_____
Check # _____ (payable to CAFNR Ag Alumni Association)

□ MC □ Visa □ Disc
Account # ___________________________
Exp ______/______ Zip Code ___________
Name on Card _______________________
Billing Address ______________________
Signature __________________________

Please contact Brent McCauley with any questions at
mccauleyb@missouri.edu or (573) 882-9003

TEAM PLAYERS

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ALL PROCEEDS SUPPORT STUDENT SCHOLARSHIPS AND EDUCATIONAL ENHANCEMENTS IN CAFNR!
SANBORN FIELD
130th ANNIVERSARY CELEBRATION

Tuesday, July 24, 2018 / 1 - 7 p.m.

Join the Mizzou College of Agriculture, Food & Natural Resources to celebrate the 130th anniversary of Sanborn Field, 101st year of the Duley-Miller Erosion Plots, and the 70th anniversary of the announcement of the discovery of the antibiotic Aureomycin at Sanborn Field. Sanborn is the oldest continuous experimental field west of the Mississippi River. Research from the Duley-Miller plots led to the establishment of what is now the USDA-NRCS. Aureomycin was used in animal and human disease prevention for decades and saved many lives. Talks will be held in Eckles Hall on the MU campus.

SCHEDULE
• 1 p.m.: Introductory Remarks, Tim Reinott, University of Missouri
• 1:10 p.m.: “Sanborn Field History: Reflections of Missouri Agriculture,” Randy Miles, MU
• 1:50 p.m.: “Soil Biological Discoveries at Sanborn Field,” Bob Koerner, MU
• 2:30 p.m.: “The History of the Duley-Miller Plots,” Clark Gantzer, MU
• 3:30-3:30 p.m.: Break
• 3:30 p.m.: “Implications of the Duley-Miller Plots to the USDA-NRCS,” Dwaine Geinhar, USDA-NRCS
• 4 p.m.: “Recent Soil Health Research at Sanborn Field,” Randy Miles, MU
• 4:30 p.m.: “21st Century Measurement Techniques on 19th Century Treatments,” Newell Kitchen/Kristen Veum, USDA-ARS
• 5 p.m.: Wrap up and Discussion
• 5-7 p.m.: Displays Under the Tent and Tours of Sanborn Field and the Duley-Miller Erosion Plots

FOR MORE INFORMATION
reinott@missouri.edu // 573-882-4450

College of Agriculture,
Food & Natural Resources
University of Missouri

For more of the story: https://cafnr.missouri.edu/2018/07/a-historic-celebration/
THE WEEK IN SNR WITH DIRECTOR JOSE

Met with Alba Argerich and Mike Byrne about a study abroad program proposal with the University of Belize
Met with Michelle Baumer (MDC Public Involvement Coordinator) and Lorisa Smith (MDC Government Affairs Specialist) about the MDC Conservation Partner Roundtable event in October to try and encourage students to attend the event; also, Eric Kurzejeski joined the meeting later
Met with and attended the presentations of Brendan O’Neill a candidate for the Assistant Professor of Soil Health position
Met with Dr. Dan Dey, Project Leader, US Forest Service, to discuss potential future collaborative opportunities
Met with Tim Reinbott, Gary Cunningham, Cheryl Recker and Barry Eschenbrenner to discuss a potential new office building plan for HARC
Met with Greg Pitchford, former President of the American Fisheries Society, Missouri Chapter, to discuss potential fisheries faculty position
Attending the HARC Summer Meeting to discuss the Chestnut Roast and research projects taking place at HARC
SPOTLIGHT

SNR Room 47 Project – “Other Duties as Assigned”! One of the “Other Duties as Assigned” for the SNR Building Room 47 Archivist (me) was to update our list of fish and wildlife theses and dissertations. What seemed so simple at first glance turned out to be a sizable chore. The “duty” got much bigger when I discovered that our archive of them in the glassed-in cabinets directly across from the elevator on the third floor was incomplete and some were missing. Enter Karen Decker who procured them from the University Library so we could process them. Karen also groomed and prepared the list so it can be viewed on our SNR website. Genevieve Howard (CAFNR Strategic Communications Associate) uploaded the list: https://snr.missouri.edu/graduate-studies/fisheries-and-wildlife-graduate-program/. I added to the complexity of the project early on by deciding to enhance the list by adding some more attributes. For instance, in addition to the students first, last name and middle initial (if any), year completed, type (Masters or PhD), title, and advisor’s name, I decided to add the number of pages, outside funding source if any, and accessibility from the University Library as shone in the links on the spreadsheet provided by Corrie Hutchinson, Associate University Librarian. You probably have already guessed what that meant - you are right - I had to peruse each one of the 636 copies dating from 1937! Now, the remaining challenge is to keep the list up to date. There just might be an error or two in the list which hopefully will be corrected in time. For those readers who published a thesis or dissertation, or both, please check to see if we got yours right. My thanks to Karen Decker (constant help and encouragement), Corrie Hutchinson (University Library), and Niki Fuemmeler (who developed the spreadsheet for the project) for their help in this project. (Submitted by Joe G. Dillard, Room 47 Archivist.)

We did develop some Trivia Quiz questions and answers from the list:

Q. Who was the first person to obtain a degree in fish and wildlife?
A. Willard Henning (he received a Master’s degree in wildlife in 1937).

Q. Who was the first person to receive a PhD degree in fish and wildlife?
A. Arthur Witt, Jr. (He received a PhD in fisheries in 1952)

Q. Who was the first female student to obtain a Master’s degree in Wildlife?
A. Kathryn L. Paullus (1947).

Q. Who was the first female student to obtain a Master’s degree in Fisheries?
A. Sandra A. Chambers (1971).

Q. Who were the first female students to obtain a PhD degree in Wildlife?

Q. Who was the first female student to obtain a PhD in Fisheries?
The 2018 Natural Resources Careers Academy kicked off July 8th and ended July 13th with 20 students (pictured right) getting ready for their senior and junior years of high school. The students came from 12 counties in Missouri. They had the opportunity to explore the academic programs offered by the College of Food, Agriculture, and Natural Resources (CAFNR) and School of Natural Resources (SNR) with Julie Scroggs from Dr. Bryan Garton’s office and Jenna Fusinatto, Laura Hertel, and Sarah Humfeld from Dr. Keith Goyne’s office. The students also explored behind the scenes of the Raptor Rehabilitation Project at the College of Veterinary Medicine.

Day two, Chris Newbold, Natural History Biologist from the Missouri Department of Conservation (MDC), and Amber Edwards, Education Coordinator from Prairie Fork Conservation Area (PFCA), demonstrated the techniques that managers use to re-establish prairie and woodland communities. Students learned how to monitor plant diversity. Dr. Sandra Arango-Caro, from Donald Danforth Plant Science Center, came to speak about the science behind soil health and MO Dirt Citizen Science Project. Later on, Steve Kistner, Callaway County Conservation Agent, and Emily Porter, MDC Education Consultant, provided students training on archery with 3D models and outdoor skills.

Day three, Dr. Alba Argerich from the SNR Limnology Lab and her graduate student taught students about stream ecology, water quality and how to do the aquatic invertebrates sampling. Roxie Campbell, Park Naturalist from Rock Bridge State Park, and Lorisa Smith, MDC Governmental Affairs Specialist, spoke about their career pathways and educational background. The students got a chance to venture through the history of conservation in Missouri through a tour of the Murals at the MDC Headquarters Building with MDC Nature Artist Mark Raithel. The students also went on a tour of the Capital hosted by the Department of Natural Resources. Sam Stewart, Naturalist from Runge Conservation Nature Center, introduced students about his career path as a nature teacher, interpreter, and naturalist. Jen Sampsell, Education Coordinator at the Conservation Federation of Missouri, and Ashley Hollis, alumni of the Conservation Leadership Corps, talked about the opportunities and Missouri Collegiate Conservation Alliance programs in which students can get involved.

Day four, Angela George and Bob Rives from MDC helped students get hands on experience with Forestry. They learned about forest stand inventory and techniques to measure trees. Students had a luncheon at PFCA with a group of conservation leaders including Mrs. Pat Jones, Jamie
Coe, Dr. Al Vogt, Jerry Presley, Elaine Calloway, Dr. Shibu Jose, Eric Kurzejeski, John George, and faculty and staff from SNR and PFCA management team. The students learned about the history of the program and got an opportunity to visit with Mrs. Pat Jones and chat about why she donated the property. Jeff Demand, PFCA Area Manager, and Eric Kurzejeski, Program Director from SNR, came to speak about the research opportunities and projects happening at PFCA by way of the bleacher wagon. They ventured into place-based climate change education and then a guided hike led by Dr. Christine Li and her SNR graduate students, Akriti Khadka and Sydney Barnason.

Day five, students participated in a boating tour on the Missouri River with Fisheries Management Biologists, Scott Voney, Darby Niswonger, Brian McKeage, Kevin Hempen, Terri Fike and Chat Voney, to learn about the techniques that MDC uses to manage fish and understand population dynamics on the river, such as electro-shocking and hoop nets. The students continued their visit by going to the Horticulture and Agroforestry Research Center (HARC) to learn about plant grafting and mushroom planting, and research projects. Hannah Hemmelgarn, Education Coordinator, led the tour and hands-on activities about agroforestry.

Day six, Patricia Quackenbush from SNR taught students the importance of soil science and how to describe and measure soil health.

On the post-academy evaluation, students strongly agreed that the academy increased their knowledge ($mean = 4.9/5; SD = .30$) and willingness to take actions to help solve environmental and natural resources issues ($mean = 4.8/5; SD = .40$). The academy challenged the students to examine different aspects associated with natural resources issues from economic, social, ecological, and cultural perspectives ($mean = 4.8/5; SD = .40$). And, the academy introduced more career pathways ($mean = 4.8/5; SD = .40$) then they were previously aware of. They enjoyed the learning opportunity and commented:

- “I have an amazing time learning and being around with other people who are passionate about nature too.”
- “I loved this camp. The activities were inviting, engaging, and informative.”
- “It opens my eyes to issues that have been studied under the natural resources and fisheries and what we can do to help.”
- “I learned how to identify trees better and measure the height of a tree. What careers paths are related to what I love to do.”
- “It was a great learning experiences and I learned about plant identification, forestry techniques, and climate change.”

We sincerely thank Prairie Fork Charitable Endowment Trust for providing financial support. We thank the College of Agriculture, Food, and Natural Resources and School of Natural Resources for materials and support with vans, classrooms, and human resources. We thank the Missouri Department of Conservation, Conservation Federation of Missouri, and Department of Natural Resources for volunteers and staff support. (Submitted by Christine Li and Amber Edwards; Photos by Amber Edwards.)
Stream Ecology Instruction with Alba Argerich

Prairie Inventory at Prairie Fork Conservation Area
MDC’s Fisheries Staff show off what was caught in the hoop net on the Missouri River

Mushroom planting with Hannah Hemmelgarn at the Horticulture and Agroforestry Research Center

This Weekly Reader will be distributed electronically every Friday (except during breaks). Please send announcements to Cindy Greenwood, Editor (greenwoodci@missouri.edu) by Thursday @ 5 p.m. If you’d like to unsubscribe from the Weekly Reader, please email Cindy. Thanks to Laura Hertel for the Weekly Reader Tiger logo.