Cliff Mcgee and Barry Eschenbrenner planting tomatoes at the Horticulture and Agroforestry Research Center (HARC) in preparation for its Virtual Tomato Day (tentatively September/date TBD). Cliff is laying straw to help mulch the tomato plants and to control weeds. (Submitted and photo by Cheryl Recker.) https://harc.missouri.edu/
HONORS and AWARDS

SNR DIRECTOR’S HONOR LIST
Spring 2020
Semester GPA of ≥ 3.75 & Cumulative GPA of ≥ 5.0

Emily K Adams
Caitlyn Allen
Brendan D Andre
Austin J Andrews
Tyler A Badie
Chloe M Baker
Barrett H Banister
Mathew H Baxter
Michael L. Baxter
Renae M Beasley
Joseph R Bell
Emily L Besgrove
Daria A Black
Nick Bolton
Aubry E Boulware
Cody G Bowden
Chase T Bridgroom
Jarod M Briscuso
Thomas M Broyles
Grant A Buccero
Elias J J Bunting
Gavin M Buxman
Dominic M Candela
Kailey J Cartwright
Ellie N Castonguay
Jacob P Ceglenski
Alexis R Chandler
Skylar J Ciccolini
Alexis N Clemons
Mikey Clever
Grace Cochran
Justin M Colley
Clara B Comparan Galloway
Gillian N Cutter
Wyatt T Darnell
Evan P Day
Mick Deaver
Denton C Diggins
Benjamin D Duncan
Lauren E Eagon
Josh Eitel
Paige A Ellis
Katie English
Madeline A Est
Chandler D Estes
Dylan L Evins
Erica M Evry
Helena F Fairchild
Maddie Feeler
James O Ferguson
Summer J Fisher
Chase A Fitzpatrick
Rory J Franssen
Noah M Freemon
Isabelle J Frigano
Elias B Gaffney
Claire K Gagliano
Ryan C Galbierz
Nathaniel W Giboney
Kris Glover
Paul D Gomez
Julian P Gray
Erik M Griffen
Armana R Gusewelle
Emma N Heienickel
Lauren T Helm
Sam Heppermann
Christian L Heutel
Sarah J Higgins
Ethan C Hodges
Ashley N Hrdina
Kayla L Huesgen
Hannah G Huff
Jenny Hummel
Lydia M Jefferson
Isaac D Jones
Tyler E Kading
Haleigh M Karl
Jack Kilz
Danielle R King
Matthew D Kirk
Trevor S Kroeneke
Matt Kurkowski
Chaz LaPoint
Katherine G Larson
Clayton M Lieberman
Natalie K Marvin
Hannah E Mayse
Connor McCarthy
Jack McGrath
Brendan T McLaughlin
Deanna M Meyer
Josh Meyer
Shae A Meyer
David A Millsap
Jacob C Newberry
Jaden N Newsome
Anthony J Orazio
Libby J Orr
Josh Pearl
Tyler M Peterson
Chase M Phillips
Drew W Phillips
Ashtan S Piercy
Avery Powell
Jason S Powers
Nathaniel J Privitera
Natalie R Radt
Nico Rarick
Rachel L Rebel
Christian D Ricketts
Eric A Rinzl
Anna R Roberts
Trenton W Roebke
Lucas Rooney
Luke Rubin
Hayden K Rubinstein
Emma F Schillinger
Cal J Schmiedeskamp
Adam D Schneringer
Chris Schrader
Liz Schrader
Scott G Schwartz
Nicole A Smythe
Jack A Spano
Griffin P Stark
Harrison D Stoudt
Jacob D Streiff
Kessiry A Tabtiang
Patrick J Teehan
Justin W Thoeni
Cassie J Twelhus
Nicholas G Tyree
Jacob M Vanderpool
Leeza Vasko
Mackenzie S Wallace
Nathan W Waller
Nathan W Waller
Kyle Watkinson
Amanda D Weijner
Kaden M Wilborn
Brooke D Wilmes
Benton L Winfrey
Olivia M Woosley
Jacob A Worsham
Kiah D Wright
Kate Yeager

Must be academically full time with 12 graded credit hours.
Emily Tracy-Smith received the 2019 Stream Team Advocacy Award, presented by Stream Teams United director, Mary Culler at this year’s Virtual Watershed Celebration at Meramec State Park. Emily is a member of stream team number 442 with the University of Missouri’s Fisheries and Aquatic Sciences Society, a student subunit of the Missouri Chapter of the American Fisheries Society. At the 2019 Missouri Natural Resources Conference Emily helped organize an advocacy workshop, titled “Bridging the Gap between Conservationists and Policy Makers” which brought together legislative experts, students, and natural resource professionals to learn more about the legislative process and how we as Missouri citizens can become more active as advocates for natural resources. As a Senior Research Specialist in the School of Natural Resources, working with the Cooperative Fish and Wildlife Research Unit, she studies the ecological flows of rivers and streams in Missouri. Emily serves as chair of the Conservation Federation of Missouri’s Rivers, Streams and Fisheries Resource Advisory Committee, and is chair of the Missouri Chapter of the American Fisheries Society, Environmental and Legislative Concerns Committee. In 2019 she was invited to serve on the Stream Teams United board of directors as an advisor for their advocacy program. Since that time, she has helped prepare comment letters on issues of importance, regularly attends advocacy committee meetings, and helped organize the Stream Teams United 2020 Stream Advocacy Workshop held in Kansas City.
PRESENTATIONS/PUBLICATIONS/RESEARCH HIGHLIGHTS

With summer in full swing, many folks enjoy spending time out on the water. However, harmful algal blooms, or HABs, can put a damper on summer fun. *The Current* (a speed networking webinar series for professionals engaged in water-related extension, research, and conservation activities) is focusing on some of the latest resources and programming to combat HABs. **Emily Kinzinger** (left), a Graduate Research Assistant in the MU Limnology Lab at the University of Missouri, was featured discussing the Network-funded Reservoir Observer Student Scientist program and year-round harmful algal bloom monitoring. Melissa Miller (right), Associate Director of the Iowa Water Center at Iowa State University, was also featured discussing research, outreach, and education resources used to mitigate harmful algal blooms in the North Central Region. (Submitted by Rebecca North.)

**Zulfirman Rahyantel** was invited to present about the Community Engagement in Marine Protected Area at Bincang Kaya Series 2 related to Marine Mega Biodiversity. Bincang Karya (BIANKA) is a platform for Indonesian students in the US to present their research or project and it is supported by the Attache of Education and Culture at The Indonesian Embassy in Washington DC, Indonesia Endowment Fund for Education (LPDP), and The Assembly Chancellor of State Universities in Indonesia. As a Master’s student in Human Dimension of Natural Resources, Zulfirman was excited to share his thoughts and research work. (Submitted by Charlie Nilon.)

A working group made up of researchers and scientists from the United States and Canada recently created an online database of academic papers related to the effects of climate change on inland fish. The Fish and Climate Change Database (FiCli) is a comprehensive and searchable database of peer-reviewed literature on how climate change has impacted and will continue to impact inland fish worldwide. The database includes numerous species, as well as geographical locations and habitats, among many other variables. (Submitted by Craig Paukert.) Find more of the story at the link: [https://cafnr.missouri.edu/2020/07/the-importance-of-inland-fish/](https://cafnr.missouri.edu/2020/07/the-importance-of-inland-fish/)
**Bob Kremer** participated in a virtual conference originating in Kiev, Ukraine, designated as the “First International Online Agri Expedition to the Midwestern United States and Canada on Precision Farming and Crop Production”. The objective was to update Ukrainian producers on current management systems for corn, soybean, wheat, canola, sunflower, sugarbeet, and hemp production underway in the US and Canada. Kremer presented on the use of biostimulants in corn and soybean management. Following the webinar he was interviewed by a journalist from Kurkul, the Ukrainian agricultural media/news organization. (Submitted by Bob Kremer.)

Kristen Veum presented an invited paper, “Soil Biology and Conservation”, at the Soil and Water Conservation Society (SWCS) symposium, “A Celebration of 75 Years”, during the SWCS 75th Annual Conference (virtual). The presentation was based on a chapter, “Soil Biology is Enhanced Under Conservation Management” co-authored by **Bob Kremer** and Kristen Veum to be published in the forthcoming book “Soil and Water Conservation: A Celebration of 75 Years”. **Clark Gantzer** chaired the symposium and is a co-editor of the book. (Submitted by Bob Kremer.)
EVENTS/MEETINGS/ANNOUNCEMENTS

Charles Nilon, professor of urban wildlife management in the School of Natural Resources, was recently named the newest holder of the William J. Rucker Professorship in Fisheries and Wildlife. From its inception in 1944, the William J. Rucker Professorship in Fisheries and Wildlife’s purpose has been for the “instruction of youth upon the subject of the value and preservation of wild life.”


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Save the Date!
Greetings from the woods at the MU Wurdack Research Center (https://wurdack.missouri.edu)! Natural Resource Science and Management (NRSM) summer interns, Jacob Ceglenski (left) and Josh Meyer (right) spent a week with Dr. Hank Stelzer (center) as they went through the Missouri Forest Products Association’s (MFPA) Professional Timber Harvester Training. They will spend the month of July embedded with a Missouri Master Logger felling, skidding and processing trees. Thanks to MFPA, MO Master Loggers and CAFNR for providing this outstanding experience!

Talk about a fish story: New World Record Paddlefish Hauled From Keystone Lake — Again! A new world-record paddlefish has again been pulled from Keystone Lake near Tulsa, less than a month after the previous world record was snagged in the same lake by a client of the same fishing guide. Angler Cory James Watters of Ochelata is the newest owner of the rod-and-reel world-record title, after snagging a 151-pound, 14.4-ounce giant Thursday morning. He and his son Stetson, 9, were fishing as clients of guide Jeremiah Mefford of Reel Good Time Guide Service. Not only did the fish prove to be the new world record for the species, but it also had a very interesting backstory to tell, said Eric Brennan, Oklahoma Department of Wildlife Conservation Northeast Region Fisheries technician. Mefford called Fisheries Division staff about 10:20 a.m., saying he believed his client had just broken the current world and state paddlefish record. Fisheries staff rushed to meet the angler at Keystone Lake. Once there, they began measuring the monster. “It weighed 151.9 pounds, had a total length of 71.5 inches, and eye-to-fork length of 54.75 inches,” Brennan said. (The standard scientific method of measuring a paddlefish’s length is the distance from the eye to the fork of the tail.) Watters wasted no time sharing his accomplishment on social media. “I’m excited and blessed to catch a fish this big. Bonus having the son there to witness this day. Thank you ODWC!” Watters wrote. What’s more,
the paddlefish had been caught in the past — as part of a research project. The fish had a band on its jaw. Once the fish was officially weighed, Brennan examined the band and “noticed it wasn’t one of our bands. It had an OSU reward tag in it.” The band, identified as No. 667, was in poor condition and was collected by ODWC, then the fish was released in good shape. “We only had the fish out of the water for the shortest time possible, about three minutes total. Other than that, we kept the fish moving in the water. It was a perfect release,” Watters wrote. Brennan confirmed that upon its release, the fish was followed using Live Scope sonar and it appeared to be healthy and swimming well. Later, a follow-up call to Oklahoma State University turned up information that the paddlefish was indeed part of research efforts by Craig Paukert, then a graduate student and currently a professor at the University of Missouri. Records indicate the fish was caught and banded in the Salt Creek arm of Keystone Lake on Jan. 4, 1997. When banded, this fish was about 2 years old, weighed 7.7 pounds and was about 2 feet long. So this world-record fish is about 25 years old! Wildlife Department Paddlefish Coordinator Brandon Brown participated in Paukert’s paddlefish banding efforts in the mid-1990s at Keystone Lake. When Paukert heard the news, he contacted Brown. Paukert told Brown, “It’s possible you may have tagged this fish while working with me way back when!” The news was exciting to Paukert. “This made my day! So, I guess this means that I caught the world-record paddlefish, but I didn’t realize it until 23 years later!” On ODWC’s Facebook page, Paukert shared some details with Watters. "I was the last person to handle that fish about 14 years before your son was born! This was part of my grad research at OSU. The fish most likely came from a net we set between the Jellystone Launch and the Keystone Marina north of the (State Highway) 51 bridge. ... It was common to set nets across the river channels. "What made my day is hearing his son was with him today. Great story all the way around in a time when we need great stories. Wish I could have been there so we could have a pic with the last two people to touch that fish — 23 years apart!" Watters’ paddlefish will become the officially recognized rod-and-reel world record for the species when it is entered in scientific journals by ODWC biologists. This record fish is just the latest in a string of actual or would-be record-setting paddlefish snagged at Keystone this year: On June 28, James Lukehart of Edmond snagged a world-record-setting 146.7-pound paddlefish, also while fishing with Mefford; On May 23, Mefford himself hauled in a 143-pound paddlefish at Keystone, setting a new state record but missing the then-world record by just a pound; and, On Feb. 14, Justin Hamlin of Kellyville boated a paddlefish that unofficially weighed 157 pounds, but the fish had to be immediately released because it was caught on a "no harvest" day as set in state regulations. The largest American paddlefish on record, taken by a spearfisherman in Iowa in 1916, reportedly weighed 198 pounds. The paddlefish is a primitive species, with a fossil record dating to the age of the dinosaurs about 75 million years ago. Resembling a shark, it has smooth skin and a skeleton mostly of cartilage. A long paddle-like blade, called a rostrum, extends forward from the fish’s head. The rostrum is covered with tens of thousands of sensory receptors that enable the fish to detect weak electrical fields produced by zooplankton, its primary food. The American paddlefish roams lakes and rivers of the Mississippi and Missouri basins. Paddlefish were once very abundant across their range but have declined in many areas. These fish can live up to 30 years, and they can grow to huge sizes. (Submitted by Craig Paukert from the Oklahoma Department of Wildlife Conservation’s publication Wildlife News, July 24, 2020).
Dealing With a “Cantaloper”! Gardening is fun and can produce some very delectable veggies. It is fairly simple: plant seeds, hoe weeds, and then harvest goodies. That is all well and good, until something starts to eat your pride and joy crop. This happened to us a few years ago with a bumper crop of cantaloupe. What nice, big, juicy sweet ones we were harvesting. Then disaster struck. As each one became ripe, some varmint would eat at least half of it. We had a garden interloper. (In human terms, interlopers are defined as a person or persons who become involved in a place or situation where they are not wanted, or are considered not to belong!) This called for drastic measures. Which in our case resulted in setting a trap baited with (what else?!) a partially eaten cantaloupe. The next morning, we had our “interloper,” a disgruntled opossum with cantaloupe breath. We immediately labeled it as a “cantaloper,” defined as any unwanted animal that eats one’s cantaloupes in the middle of the night. In this case it turned out to be an opossum, although other animals such as groundhogs, foxes, and racoons have been known to eat a melon now and then. We transported our “cantaloper” to a local wildlife refuge with a warning about the consequences of a return visit to our patch and released it. Now we can enjoy the fruits of our labor and don’t have to share them with a garden interloper. We trapped another cantaloper! The score is: Dillard’s garden / Minus one cantaloper; Eagle Bluffs Conservation Area / Plus one cantaloper; Results: Better melons for Dillard’s; Major confusion for one displaced marsupial. (Submitted by Joe Dillard.)

The *SNR Monthly Reader* will be distributed electronically the last working day of the month (except during breaks). Please send announcements to Cindy Greenwood, Editor (greenwoodci@missouri.edu). If you would like to unsubscribe from the *SNR Monthly Reader*, please email Cindy.