



May 2021

SNR MONTHLY READER



<https://baskett.missouri.edu/>

DIRECTOR MARKET – SNR ACTIONS

- Attended in-person SNR graduation
- Attended brainstorming session on faculty recruitment and capacity grants
- Attended spring meeting of the SNR Advisory Council
- Participated in “Return to Work” (May 17) training
- Attended CAFNR – SNR Research Day poster, new faculty, and faculty showcase presentations
- Participated in discussions about an “Extension and the USDA Climate Hubs” funding opportunity; working with SNR faculty, Extension faculty, Lincoln University faculty
- Participated in Water Center Merger Task Force discussions
- Attended CAFNR Leadership Retreat
- Continuing work with CAFNR Advancement to reach endowment goals



HONORS AND AWARDS

Victoria Burnett, MS, Human Dimensions of Natural Resources, received the 2021 MU Graduate School’s Mary Elizabeth Gutermuth Award for Community Engagement <https://gradschool.missouri.edu/graduate-awards-travel-scholarships/mary-elizabeth-gutermuth-award-for-community-engagement/>. Her graduate work focuses on engaging youth with nature through Youth Monarch Conservation Program and outdoor classroom analysis among urban youth. She is featured in the 2021 Graduate School Awards Video (skip to minutes 20:20 to see her) <https://youtu.be/G1W0Lk0XkRA>. (Submitted by Advisor **Christine Li**.)



Greg Snellen has been named the 2021 Alumnus of the Year by the CAFNR Alumni Association. He is an environmental supervisor with Missouri Department of Natural Resources’ Waste Management Program, serving as the program coordinator for rule development, legislative inquiries and stakeholder engagement. Snellen leads the School of Natural Resources (SNR) Alumni Association, and is part of the SNR Advisory Council. He recently won the Black and Gold Alumni Award from SNR. He received his BS in Fisheries and Wildlife Sciences from Mizzou in 2004.

For more of the story: <https://cafnr.missouri.edu/accolades/greg-snellen-named-alumnus-of-the-year-by-cafnr-alumni-association/>

Crystal Rein (Advisor **Rebecca North**) and **Lydia Jefferson** (Advisor **Alba Argerich**) have earned their Student Training for Advancing Research (S.T.A.R.) recognition from the Office of Undergraduate Research! After having attended five professional development workshops this spring, Crystal and Lydia were recognized at the Closing Ceremony of Undergraduate Research Week.

S T A R
STUDENT TRAINING FOR ADVANCING RESEARCH




The SNR Wildlife and Fisheries Graduate Students held their spring picnic and during the picnic, the students announced the two annual awards from their organization: **Greg Rotert** [Support Systems Administrator, Division of IT, CAFNR/SNR] (top photo) received the Wildlife and Fisheries Outstanding Faculty/Staff Award in 2021. The graduate students have really appreciated Greg helping them over the last year, particularly in the wake of a pandemic. **Mischa Schultz** (Bottom photo right), MS student with **Mike Byrne** [Assistant Professor] (Bottom photo left) received the 2021 Wildlife and Fisheries Outstanding Graduate Student Award. (Submitted by **Craig Paukert**.)

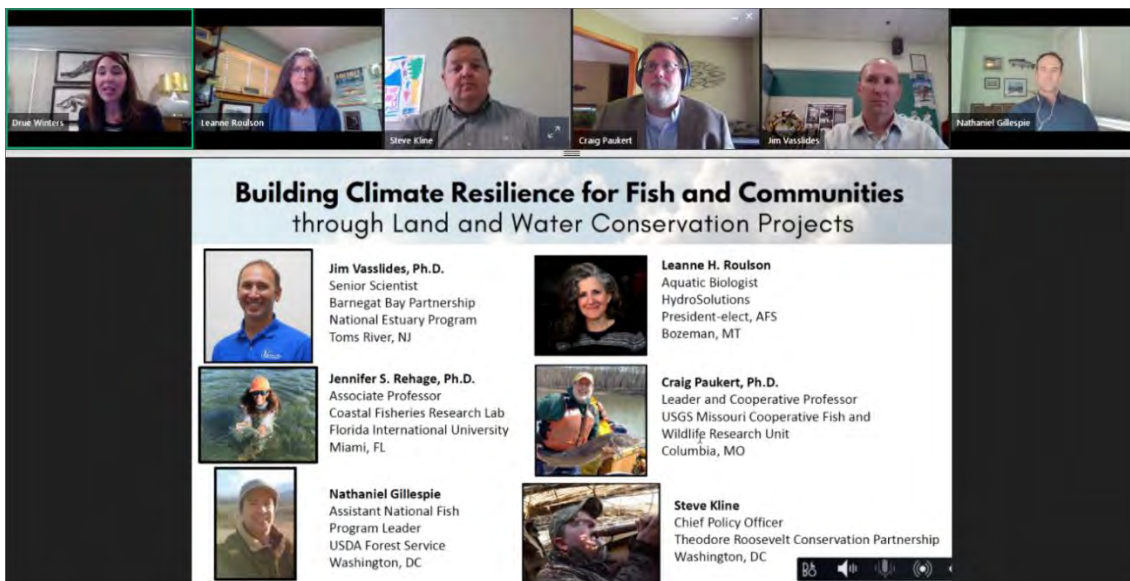
PRESENTATIONS/PUBLICATIONS/RESEARCH HIGHLIGHTS

Wollschläger, J., Neale, P.J., **North, R.L.**, Striebel, M., and O. Zielinski. 2021. Editorial: Climate change and light in aquatic ecosystems: Variability & ecological consequences. *Frontiers in Marine Science*. 8:688712. <https://www.frontiersin.org/articles/10.3389/fmars.2021.688712/full>

Ozersky, T., Bramburger, A., Elgin, A., Vanderploeg, H., Wang, J., Austin, J., Carrick, H., Chavarie, L., Depew, D., Fisk, A., Hampton, S., Hinchey, E., **North, R.**, Wells, M., Xenopoulos, M., Coleman, M., Duhaime, M., Fujisaki-Manome, A., McKay, R., Meadows, G., Rowe, M., Sharma, S., Twiss, M., Zastepa, A. 2021. The changing face of winter: Lessons and questions from the Laurentian Great Lakes. *Journal of Geophysical Research: Biogeosciences*. <https://doi.org/10.1029/2021JG006247>







Jane, S.F., Hansen, G.J.A., Kraemer, B.M., Leavitt, P.R., **North, R.L.**, Pilla, R.M., Williamson, C.E., Woolway, R.I., Arvola, L., Chandra, S., DeGasperi, C.L., Diemer, L., Dunalska, J., Erina, O., Flaim, G., Grossart, H.P., Hambright, K.D., Hein, C., Hejzlar, J., Janus, L.L., Jenny, J.P., Jones, J., Knoll, L.B., Leoni, B., MacKay, E., Matsuzaki, S.I., McBride, C., Muller-Navarra, D.C., Paterson, A.M., Pierson, D., Rogora, M., Rusak, J., Sadro, S., Saulnier-Talbot, E., Schmid, M., Sommaruga, R., Thiery, W., Verburg, P., Weyhenmeyer, G., Yokota, K., Rose, K.C. 2021. Widespread deoxygenation of temperate lakes. *Nature*. <https://www.nature.com/articles/s41586-021-03550-y> [link active on 6/1/21]

 For the third year in a row, the Global Climate Change Research group issued a forecast for the Atlantic tropical cyclone season which runs from 1 June–30 November. Our research group, which included undergraduate student Adam Schneringer, can be found at: <http://weather.missouri.edu/gcc/UniversityofMissouri2021TropicalForecast.pdf>. This year we predict another active season with 16 named storms which would include 9 tropical storms, 7 hurricanes, and 4 major hurricanes (Category 3–5). This forecast is used by The Colorado State University Tropical Research Group to generate their atmospheric community forecast. Last year, our forecast (like everyone else’s) underestimated the number of tropical storms in the Atlantic, particularly in the Eastern Atlantic. The rest of the 2020 season hurricane forecast was very good. (Submitted by **Tony Lupu**.)



The screenshot shows a Zoom meeting with six participants in a grid at the top. Below the grid is a presentation slide with the following content:

Building Climate Resilience for Fish and Communities through Land and Water Conservation Projects

 Jim Vassilides, Ph.D. Senior Scientist Barnegat Bay Partnership National Estuary Program Toms River, NJ	 Leanne H. Roulson Aquatic Biologist HydroSolutions President-elect, AFS Bozeman, MT
 Jennifer S. Rehage, Ph.D. Associate Professor Coastal Fisheries Research Lab Florida International University Miami, FL	 Craig Paukert, Ph.D. Leader and Cooperative Professor USGS Missouri Cooperative Fish and Wildlife Research Unit Columbia, MO
 Nathaniel Gillespie Assistant National Fish Program Leader USDA Forest Service Washington, DC	 Steve Kline Chief Policy Officer Theodore Roosevelt Conservation Partnership Washington, DC

Craig Paukert [Leader and Cooperative Professor, US Geological Survey, Missouri Cooperative Fish and Wildlife Research Unit] (pictured top of the screen shot third from the right), was one of six scientists that participated in a U.S. Congressional Staffer briefing on Building Climate Resilience for Fish and Communities through Land and Water Conservation Projects. The briefing was designed to help inform policy makers on how land and water-based conservation solutions can make fish and communities more resilient to the impacts of climate change. Craig focused on how agriculture-based projects in the Midwest such as no-till farming and riparian buffers can help improve water quality and also help build more resilient lakes with economically and culturally important fishes such as walleye and cisco. This was the third briefing Craig has conducted in the last several years to U.S. Capitol Staffer related to climate change and aquatic systems.

EVENTS/MEETINGS/ANNOUNCEMENTS



The Mizzou Soil Judging Team participated in the first-of-its-kind virtual National Collegiate Soil Judging Contest. The contest included group and individual judging with pedon descriptions, feature identification, and soil texturing components. The contest featured soils from across the country, including Alaska and Puerto Rico, offering

students an excellent opportunity to see diverse soils. The Mizzou Soil Judging Team performed well in every aspect of the contest. Sarah Higgins placed 2nd overall individually and tied for the top score for the feature identification portion. The team placed 4th overall in the group contest, 4th in group pedon descriptions, and 2nd in group soil texturing. Finally, Mizzou finished in 9th place (of 21 teams) in the combined individual and group portions. The team was composed of **Sarah Higgins, Shae Meyer, Jessica Anderson, Jacob Wolken, and Rosie Garza. Luke Eaton and Anna Massman** were unable to attend the contest but have been active members of the soil judging team this year. (Submitted by **Rachel Owen.**)



Upcoming Dates:



<https://www.como.gov/parksandrec/>

May 28: [Stephens Lake Beach and spraygrounds](#) open, [Flat Branch Park](#) spraygrounds open and [Douglass spraygrounds](#) open

June 9: [Albert-Oakland Family Aquatic Center](#) opens

July 1: [Douglass Family Aquatic Center](#) opens if there is adequate staffing.

At this time, Lake of the Woods Pool will not open. Little Mates Cove at Twin Lakes had already been designated to remain closed, due to structural issues and a shortfall in revenue to pay for renovations and operation costs.



The Baskett Brief



The Baskett Wildlife Research and Education Center (BWREC) is a research center within the CAFNR Missouri Agricultural Experiment Station. Located in Ashland, MO, BWREC is a critical asset to the School of Natural Resources, providing a living laboratory for students to engage in hands-on learning and serving as a site for a variety of research and outreach programs. This new, regular feature in the SNR Monthly Reader will provide information on current projects and activities at BWREC.



A History of Conservation

The BWREC came into University of Missouri management in 1938, following consolidation of sub-marginal farmland by the federal government. From the beginning, BWREC was dedicated to restoration and conservation of natural resources—the forests, the wildlife, the soils, and the water. The dedication of the property included an address by famed conservationist Aldo Leopold, delivered April 26, 1938.

The BWREC came into University of Missouri ownership in 1960 throughout its history. In 1988, the property was renamed after Dr. Thomas S. Baskett, who led the Missouri Cooperative Fish and Wildlife Research Unit at MU. Baskett served as the superintendent of BWREC from 1948 to 1968 and from 1973 to 1979.

Over the years, BWREC has been critical to the mission of SNR, with innovative research across a wide range of natural resource topics. Thousands of students have used the property in courses and as a research site, enhancing their education through hands-on learning. And the tradition continues!



Contributed by: Ben Knapp (knappb@missouri.edu), Superintendent

SPOTLIGHT ON SNR FACULTY, STAFF AND STUDENTS

CAFNR – SNR Research Day 2021: This year’s Research Day was a combined effort to provide virtual activities to a broader audience on such topics as: Preparing Tomorrow’s Leaders for Science (PTLS) Scholars Program; CAFNR Graduate and Undergraduate Student Research Festival which shared CAFNR student research opportunities, including awards and funding; short introductions by CAFNR students; USDA funding opportunities for graduate students; a keynote session provided by Daniel Marena, NSF Division of Biological Infrastructure HR Cluster; Grant Resources information, and, a session about What is NextGen and What it Means for CAFNR.

SNR had a student poster and judging session during the morning and then had plenary speakers **Sarah Lovell** and **Chung-Ho Lin**; a New Faculty Showcase with **Ashley Conway**, **Ron Revord**, **Jeff Wood**, **Shuangyu Xu**, **Morgan Davis**, **Michelle Brimecombe**; and, Faculty Spotlight with **Christine Li**, **Alba Argerich**, and **Rebecca North**.

The last part of the afternoon was the awards announcement: **Kiah Wright** (Advisor **Jacob Westhoff**) won the undergraduate poster award: “A Novel Method to Assess Substrate Compaction in Lotic Systems”. There were two poster award winners in the Graduate poster category: **Victoria Burnett** (Advisor **Christine Li**) and **Jessica Wilson** (Advisor **Alba Argerich**). Victoria’s poster: “Taking Science Education Outside: Student Perceptions of Outdoor Classroom Design”. Jessica’s poster: “Thriving Algae in a Heavy Metal Contaminated Stream”. **Shengwu Duan**’s poster won the award in the Postdoctoral category: “Decision Support System for Missouri National Recreational River: Design and Implementation”. 2020 Best Dissertation Award Winner: **Ruth W. Xu** (Advisor **Hong He**): “Effects of Large Fires on Boreal Forests of China: Historical Reconstruction and Future Prediction Through Landscape Modeling”. Honorable Mentions for the 2020 Best Dissertation Award were: **Van Ho** (advisor **Chung-Ho Lin**), **John Schultz** (Advisor **Sonja Wilhelm Stanis**), and **Emily Sinnott** (Advisors **Frank Thompson** and **Mitch Weegman**). 2020 Best Thesis Award Winner: **Emily Piontek**: “Residents’ Perceptions of Ecosystem Services & Environmental Justice in Urban Greenspace: A Mixed Methods Exploration in St. Louis, Missouri” (Advisor **Sonja Wilhelm Stanis**). 2019 Best Thesis Award Winner: **Stephanie Cunningham** “Decision-Making and Demography of Greater White-Fronted Geese” (Advisor **Mitch Weegman**).



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



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