

June 2022

Department Newsletter

Bakery Science Hosts FFA and 4H Students for Hands-on Baking Workshops







The bakery science instructors hosted FFA groups for workshops on June 1 and a 4H group on June 2 as one of the Discovery Days workshops. In the bake lab, the FFA group made pretzels and learned about bakery science as a career possibility.

The 4H group completed the "Wheat: Farm to Mill to Table," project. In the workshop the 4-Hers learned about the wheat milling process and the use of flour to make yeast breads. They gained skills in shaping and baking several yeast raised products including baguettes, focaccia, and braided Challah. The group also learned about the career and educational opportunities in milling science and bakery science.

Karkle Attends 8th International Symposium on Sourdough in Bolzano, Italy



Elisa Karkle, assistant professor of bakery science, attended the 8th International Symposium on Sourdough at the Free University of Bozen/Bolzano, in Bolzano, Italy.

The symposium is a forum where the latest scientific progress is shared on the interaction of fermentation microbes and cereal raw materials. The symposium included a tour of lake Carezze, in the beautiful Dolomites mountain range.

Following the symposium, she visited Bocker, a leading sourdough company, in Minden, Germany, invited by PMAN, their partners in the Americas.



Lactic acid bacteria



Active sourdough



Sourdough baguettes



Fran Churchill Elected IAOM Treasurer

Lenexa, Kansas – Fran Churchill, professor of practice in milling science at Kansas State University, Manhattan, Kansas, was unanimously elected 2022–23 treasurer of the International Association of Operative Millers (IAOM) at the Association's 126th Annual Conference & Expo on May 5 in Richmond, Virginia.

As treasurer, Churchill will be responsible for overseeing preparations for the Association's 2023 and 2024 conferences in Minneapolis, Minnesota, and Salt Lake City, Utah, respectively. She is also in line to serve as the Association's president from 2024-25. Churchill has been an active member of IAOM since 2013.

While serving as IAOM treasurer, she will also be vice president of the International Milling Education Foundation (IMEF), a philanthropic partner of IAOM that funds a variety of educational programs related to the grain milling industry. Churchill has been an active member of the IAOM Employee Relations Committee since 2015 and chairs the Women in Milling roundtable that was started in 2020.

Kudos to Grain Science Researchers

Elisa Karkle was awarded one of ten University Small Research Grants for her proposal, "Increase of iron availability in whole wheat bread using inactive sourdough," (\$2,909). University Small Research Grants are awarded each fall and spring by the Office of the Vice President for Research through the Office of Research Development.

Grain science professors, Yonghui Li, and Susan Sun, along with Weiqun Wang, nutrition dietetics and health, were awarded a \$200K Global Food Systems Seed Grant

for their proposal, "The Discovery of Bioactive Antioxidants in Wheat Brans for Retarding Skin and Health aging."

Susan Sun is part of another collaborative proposal with professors Shih-Kang Fan, mechanical and nuclear engineering, and Jianfa Bai, diagnostic medicine and pathobiology, "Hydrogel-based multiplex digital polymerase chain reaction on electromicrofluidics (hmdPCR-on-EMF) for Shiga toxin-producing Escherichia coli detection," that was awarded a \$200K Global Food Systems Seed Grant.



(L–R): Hee Seong Kim, Katelyn Bailey, Logan Kilburn, Greg Aldrich, Kallee Dunn, Paris Johnson, Youhan Chen, Samuel Kiprotich

ASAS Annual Meeting June 26–30, 2022

The pet food group attended the American Society of Animal Science annual meeting in Oklahoma City last week. Paris Johnson (MS student) and Youhan Chen (Ph.D. student) placed 1st and 2nd in the Companion Animal Section's poster presentations and Logan Kilburn (Ph.D. student) placed 3rd in the Graduate Student oral presentations.

Grain Science Friends and Alumni Golf Tournament

Friday, Sept. 9, 2022



Rolling Meadows Golf Course

6514 Old Milford Rd. • Milford, KS 66514

8:00 a.m. Social Hour

9:00 a.m. Shotgun Start

1:30 p.m. Barbeque Lunch and Reception

Golf Tournament Registration Information

Our Mission

The mission of the Department of Grain Science and Industry is to advance the global grain and plant-based food, feed, and bioproduct industries through scholarship, research, and outreach.

Connect With Us

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