

August 2023

## Department Newsletter

### Grain Science Friends and Alumni Golf Tournament

Friday, September 22, 2023



*[Click here to register or for more information](#)*



### First GSGSO General Meeting of Fall Semester

On September 3, 5:30 p.m. the first GSGSO general meeting of the semester will take place in Shellenberger 311. GSGSO is a great opportunity for students to meet people

and be involved in the department. Students who are a part of GSGSO are open to leadership opportunities, socials, professional development events, networking, community service, and much more!

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### **Back to School BBQ**

On Tuesday, August 31, the Grain Science welcome back BBQ was held at the IGP Institute. Students and staff enjoyed delicious food, held a raffle and gave away Amazon gift cards, and even received a visit from our very own Willie the Wildcat!

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### **Summer Dissertation Defense**

Congratulations to the following individuals who successfully defended their dissertations this summer!

Cheng Li, Ph.D.

Major Professor: Yonghui Li

Dissertation: Investigating and optimizing bread-making properties of whole wheat flour

Logan Kilburn-Kappeler, Ph.D.

Major Professor: Greg Aldrich

Dissertation: Evaluation of corn fermented protein (CFP) in pet food applications

Samuel Kiprotich, Ph.D.

Major Professor: Greg Aldrich

Dissertation: Mitigation of enteric foodborne pathogens in raw and minimally processed pet food using food additives

Hee Seong Kim, Ph.D.

Major Professor: Greg Aldrich

Dissertation: Evaluation of whole soybean as an ingredient in extruded dog diets

Jialiang (Bruce) Shi, Ph.D.

Major Professor: Yong-Cheng Shi

Dissertation: Preparation, structure, and digestibility of starch spherulites with different morphologies and allomorphs

Patrick Badger, M.S.

Major Professor: Chad Paulk

Thesis: Effects of diet formulation on pellet mill performance and pellet quality on grow-



### **Grain Science and Industry Ph.D. Student Awarded Internship from National Science Foundation**

Ph.D. student, Meicen Liu was recently awarded a National Science Foundation (GSI) Non-Academic Research Internship for Graduate Students (INTERN). Liu's studies and research at GSI focus on examining the treatment of hydrothermal liquefaction wastewater (HTLWW) with a variety of bacterial and fungal as well as microalgal strains under different conditions and process designs for high-rate pollutant removal. She is

funded by the National Science Foundation and studies under Associate Professor, Dr. Yi Zheng, who is the Primary Investigator for the research project: "Collaborative Research: A Novel Biological Valorization of Hydrothermal Liquefaction Wastewater with Marine Protist and its Granulated Phenotype". Liu will be using her \$37,578 INTERN award to support her 2024 summer internship at Sandia National Laboratory, Livermore, CA.

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### **AMSA National Student Leadership Conference**

Pet Food Program graduate students attended the AMSA National Student Leadership Conference in August at the Fort Worth Stockyards. The students attended a career fair, networked with industry professionals, and toured the Fresh Pet Operations and Processing facility. Students who attended are Katelyn Baily, Youhan Chen, Larissa Alves Koulicoff, and Kallee Dunn.

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### **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.*

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### **Connect With Us**

**Department of Grain Science and Industry**

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