

INSIDE AGRONOMY

ISSUE 8 - JANUARY 13, 2025

 **PURDUE UNIVERSITY** | Agronomy



Email your news, photos, and articles to Stephanie Orem at sorem@purdue.edu to be shared in the next issue of Inside Agronomy!

CONGRATULATIONS, YICHAO RUI!

Dr. Yichao Rui was named a recipient of this year's AgSeed grant!

2025 AgSEED Recipients

CONGRATULATIONS TO THESE PROJECT LEADERS AND THEIR COLLABORATORS



STEVE AMIREAULT

NRS

Impact of delivery method on the effectiveness of program delivery of A Matter of Balance among midlife and older adults living in rural Indiana: A feasibility study

FRANCOIS-RENE BERTIN

VET MED

Urinary Cortisol as a Diagnostic Tool for Pituitary Pars Intermedia in Horses

ANNABEL BIRUETE

NUTR

Impact of a culturally appropriate snack on cardiometabolic health, the circulating metabolome, and the gut microbiome in Hispanic/Latine individuals from Indiana

STEPHEN CAMERON

ENTM

Genomic Resources for pest thrips: What is the genetic basis of gall-induction and viral vector competence?

AMANDA DEERING

FS

Sanitization of Seeds - Mechanism for Produce Growers to Reduce the Risk of Foodborne Pathogen Contamination of Cantaloupes, Cucumbers, and Lettuce

BRENNA ELLISON

AGEC

Leveraging Co-Created Citizen Science to Reduce Household Food Waste

MARISA ERASMUS

ANSC

Incubating interest and interaction with live and virtual chicks in the elementary classroom

HARM HOGENESCH

VET MED

Development of a novel immunocontraceptive vaccine to reduce damage caused by wild pigs

SOO JUNG JO

NURS

Investigation of the Relationship Between Social Media Use and Tdap/Influenza Vaccine Uptake Among Pregnant Women in Indiana

UPINDER KAUR

ABE

Cyber-physical System for Real-time Control of Ticks and Tick-borne Diseases in Indiana

MAJID KAZEMIAN

BCHM

A novel ciclopirox derivative as an antitumor and antifungal agent

BRAD KIM

ANSC

Echoes of Sustainability - Acoustic Prediction Systems for Meat Waste Reduction

STEVE LINDEMANN

FS

Upcycling agricultural residues for improved swine nutrition and gut health through anaerobic fermentation

XING LIU

BCHM

Protein ubiquitination in developing plant male gametophytes

HEATHER NEAVE

ANSC

Sustainable feeding, suitable feelings? Leveraging technology to evaluate behavioral and emotional responses of dairy cows to methane-reducing diets

VIJU VIJAYAN PILLAI

VET MED

Development of a rapid, on-site diagnostic test for detection of Mycoplasmosis in bison

YICHAO RUI

AGRY

Can We Synergize Productivity with Soil Carbon Capture through Hybrid Selection and Fertilizer Optimization? Exploring the Surplus Plant Carbon Theory

 **PURDUE UNIVERSITY** | Agricultural Research and Graduate Education

UPCOMING

January

- 13 - Spring semester begins
- 20 - University Holiday - Martin Luther King, Jr. Day
- 27 - Seminar - Dr. Bruno Brasso - Michigan State Univ

February

- 3 - Seminar - Dr. Darrell Schulze - Purdue Agronomy
- 3 - Ag Alumni Fish Fry
- 5 - Dean Engle departmental visit
- 10 - Seminar - Dr. Gary Steinhardt - Purdue Agronomy
- 15 - DAA Nominations Due
- 17 - Seminar - Dr. Chad Penn - USDA ARS National Soil Erosion Research Lab
- 24 - Seminar - Dr. Elizabeth Riecke - Soil Health Institute

WELCOME BETSY BOWER!



Betsy Bower, Agronomy BS, Purdue 1990 and Agronomy MS, University of NE 1993 worked for an ag retail cooperative (Growers, Ceres Solutions and Keystone) for over 30 years. In her role as agronomist for 26 years in the cooperative system she

worked with farmer customers and colleagues in corn, soybean and wheat production, conservation agronomy including no-till systems and cover crops, and irrigation/fertigation. Her experience covers all facets of agronomy including nutrient, crop, pest and soil and water management. She resides near Lafayette/ West Lafayette with her husband Don, daughter Tess and sons Ty and Seth.

Congratulations to Lynda Peter!

Graduate Ag Research Spotlight for January 2025!

<https://ag.purdue.edu/news/department/arge/2025/01/graduate-spotlight-lynda-godwin-peter.html>



"Congratulations to Sheng Lu, postdoctoral researcher in Yichao Rui's lab, on the newest addition to his family—a new agronomy baby!"

submitted by Yichao Rui

Main Office Student Worker Schedule 2025 Spring Semester

Mondays

9:00 – 11:20 a.m. – Ava Antic

Tuesdays

9:30 a.m. – 12:00 p.m. – Shayla Crawford

Wednesdays

8:00 a.m. – 1:00 p.m. – Lauren Maxwell

Thursdays

9:30 a.m. – 3:30 p.m. – Shayla Crawford

Fridays

8:00 – 10:30 a.m. – Shayla Crawford

10:30 a.m. – 12:30 p.m. – Lauren Maxwell

HELPFUL INFORMATION FROM LILLY HALL FACILITIES MANAGER

With the start of the new semester coming up, I wanted to share some helpful information for the LILY complex. If you have any questions, please let me know.

Building Emergency Plans (BEP)

This website requires a Purdue career account to log on but lists all of the BEP's on campus. You will find the most up to date versions for LILY, LSA, and LSPS/LSR on this site. <https://www.purdue.edu/epps/emergency-preparedness/emergency-plans/bep/campus-bep-list.php>

Lilly Key Requests

Please use this link for any key requests in LILY, LSPS, LSR, and LSA regardless of your department.

<https://purdue.ag/Lily-Key-Request>

Emergency Preparedness

Anyone requesting additional assistance during an emergency is encouraged to fill out the Voluntary Registry for Persons Requesting Additional Assistance form below and send it to the Purdue Fire Department. Regardless if the form is submitted or not, if you need assistance during a building evacuation, shelter-in-place in an area with no immediate hazards and call 911. Advise the Purdue Police dispatcher of your name, location, and follow their instructions. [Emergency Preparedness - Accessibility Resources - Purdue University](#)

Building Email List

The link below provides instructions on how to sign up for our building email list. I use this for important notifications and outages within the complex. [Article - How do i subscribe or unsub... \(purdue.edu\)](#)

Recycling

If you need extra recycling or trash bins, please use this link to request them: [Confidential Cart and Trash/Recycling Container Request Form](#)

Will Werline - Facilities Manager - Lilly Hall

Office: 765-494-8079, Cell: 765-490-2149, E-mail - wwerline@purdue.edu

AGRONOMY SPRING 2025 SEMINAR SERIES

**Mondays at 2:30
p.m.
LILY 2-425**
(unless otherwise noted)

**Join friends and
colleagues as they
discuss the latest
in Agronomy and
other related
topics.**

Zoom links for virtual attendance and online-only seminars will be shared closer to their scheduled date.

A detailed flyer will be shared prior to each seminar. Please refer to the specific event flyer for any changes.

Visit the Agronomy Seminar Series Website at: purdue.ag/agryseminars or by scanning the QR code below.



Agronomy

| Date | Speaker |
|---------------|---|
| January 27th | Dr. Bruno Basso - Michigan State University - On-line only Topic: Understanding Drivers of Spatial and Temporal Variability of the Soil-Plant-Atmosphere System Host: Dr. Bruce Erickson |
| February 3rd | Dr. Darrell Schulze - Purdue University - Agronomy Topic: Soil Explorer - Visualizing and Understanding Soil Landscapes Host: Dr. Cindy Nakatsu |
| February 10th | Dr. Gary Steinhardt - Purdue University - Agronomy Topic: A 48-Year Soils Journey in a Land-Grant University Host: Dr. Eileen Kladvko |
| February 17th | Dr. Chad Penn - USDA ARS National Soil Erosion Research Lab Topic: Phosphorus Management: Feast and Famine Host: Dr. Yichao Rui |
| February 24th | Dr. Elizabeth Rieke - Soil Health Institute Topic: TBD Host: Dr. Roland Wilhelm |
| March 3rd | Dr. Mitch Tuinstra - Purdue Agronomy - Dean's Auditorium Seminar Topic: Named Professor Review Host: Dean Engel |
| March 10th | Dr. Ling Li - Mississippi State University Topic: TBD Host: Dr. Cankui Zhang |
| March 24th | Dr. Joyce Van Eck - Boyce Thompson Institute - Cornell Topic: TBD - Seminar co-sponsored by Agronomy & Center for Plant Biology Host: Dr. Cankui Zhang |
| March 31st | Dr. Eliana Monteverde - University of Illinois Urbana-Champaign Topic: TBD Host: Dr. Karen Hudson |
| April 7th | Dr. Keith Johnson - Purdue University - Agronomy Topic: Story Telling Has Value at Educational Events Host: Dr. Eileen Kladvko |
| April 14th | Dr. Pragati Pramanik - Indian Agriculture Research Institute - Delhi Topic: Application of Machine Learning Approaches in Soil Health Assessment Host: Dr. Sidd Paul |
| April 21st | Dr. Kateryna Zhalnina - Lawrence Berkeley National Lab Topic: Metabolomics/Cover Crops Host: Dr. Roland Wilhelm |
| April 28th | Dr. Jean-Michel Ane - University of Wisconsin - Madison Topic: Biological Nitrogen Fixation on the Aerial Roots of Maize and Sorghum for Sustainable Agriculture Host: Dr. Jianxin Ma |