

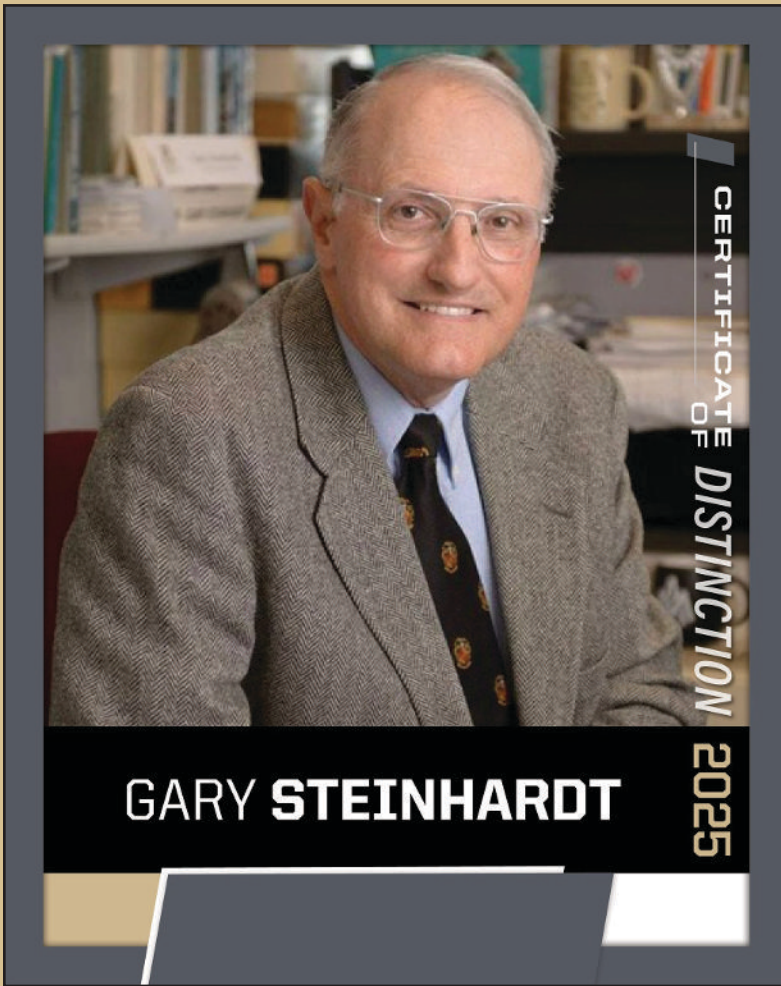
# INSIDE AGRONOMY

ISSUE 10 - FEBRUARY 10, 2025



Agronomy

## Congratulations to Dr. Gary Steinhardt! Purdue Ag Alumni's Certificate of Distinction Recipient

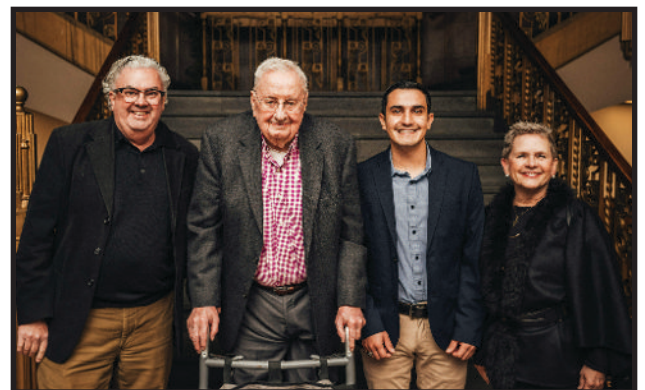


The Certificate of Distinction, the highest award of the Purdue Alumni Association, is intended to recognize those who have contributed significantly to agriculture, forestry or natural resources through professional organizations, community service work, and other activities that make the nominees a credit to their profession.



### Thank you to the Agronomy Club for all of their work at the Ag Alumni Fish Fry!

(l-r) Kaia, Reese, Kyra, Arrington, Anna, Ruby, Jonathan, Jason, Justin, Max, Charleston, Chris



Erick Oliva Fuentes, recipient of the 2024 M.O. Pence Graduate Scholarship winner attended a dinner with the Pence family on Thursday, January 30, 2025.

# Thank You, Will Werline & Niki De Armond!

We extend our sincere appreciation to Will Werline and Niki De Armond for their dedication to safety in Lilly Hall. During this year's annual safety inspection, the building received 195 citations—an impressive decrease from the typical average of 500. Thanks to their hard work, Agronomy had very few of the 195 citations, highlighting their commitment to maintaining a safe and compliant work environment. We truly appreciate your efforts in making Lilly Hall a safer place for everyone!

## Congratulations to our Agronomy faculty listed below!

Submitted by Laura Bowling

Over the last few years, the Office of Agriculture Research and Graduate Education (ARGE) has honored our distinguished College of Agriculture faculty for their year-over-year advancements in citations and H-index increases associated with their cumulative publications. Regardless of personal sentiments towards citations and H-index, it's essential to recognize that these metrics play a significant role in various aspects of our programs, including international rankings of colleges of agriculture, evaluations for awards, and shaping opinions about the reputation of our research enterprise and college.

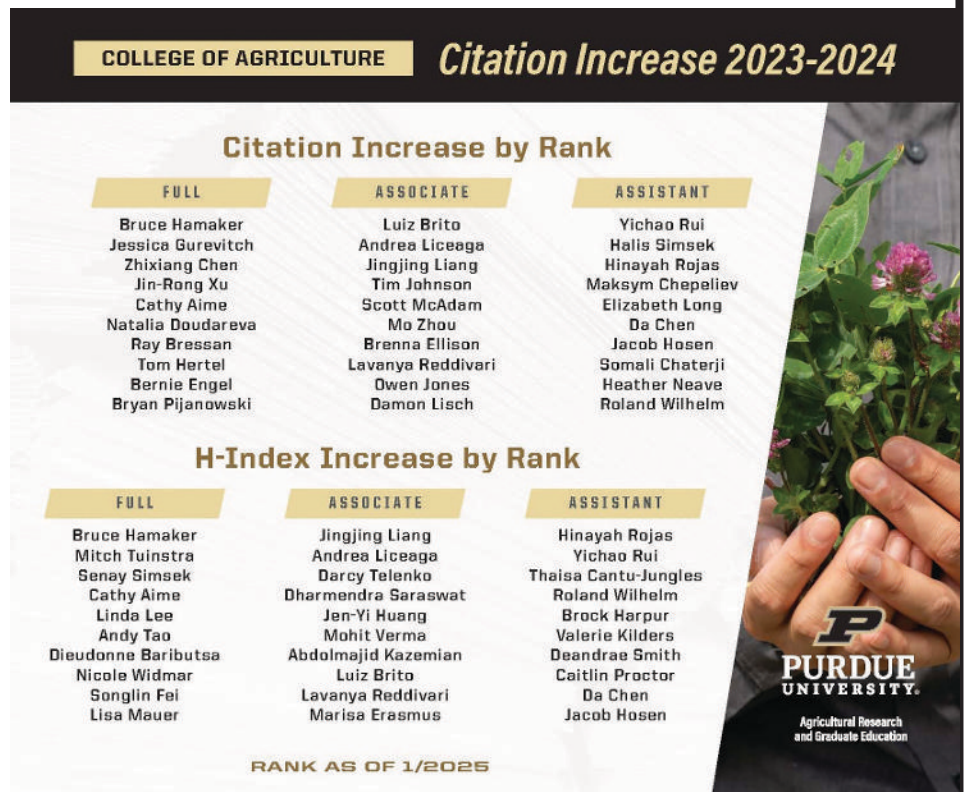
ARGE is again shining a spotlight on our faculty members, who have demonstrated the most substantial increases in citations and/or H-index between 2023 and 2024, as reported by Google Scholar. Attached to this email is a listing of the individuals in each rank, showcasing their outstanding achievements (ranked as of the beginning of 2024).

Please join me in extending heartfelt congratulations to our colleagues who have been recognized for their exceptional contributions to advancing knowledge. Their dedication and impact in the field are truly commendable.

Thank you for joining me in applauding the achievements of our colleagues.

**Ronald F. Turco**

Associate Dean and Director of Agricultural Research and Graduate Education



By: Austin Pearson

The United Soybean Board, in collaboration with the Midwestern Regional Climate Center (MRCC) and Purdue on the Farm, invites soybean producers and advisers to a subregional workshop focused on utilizing climate data to enhance soybean production and to learn about opportunities with Purdue on the Farm. The workshop will occur at the Indiana Soybean Alliance on Friday, March 14, 2025.

We encourage you to share information about this upcoming workshop with relevant stakeholders. Registration is free but required for planning purposes. The first 25 registered participants who request travel reimbursement will receive a \$350 honorarium. Meals will be provided during the workshop. Additional details are provided in the flyer below. Contact [pearsona@purdue.edu](mailto:pearsona@purdue.edu) for questions.

Please register by March 7, 2025, at <https://bit.ly/USB-Indianapolis>.

## Empowering Soybean Producers: Harnessing Climate Tools Purdue on the Farm

FUNDED BY

### What you'll be doing:

- ✓ Learn about climate decision support tools
- ✓ Share ideas about ag climate tool dashboard
- ✓ Assess soybean production decision needs
- ✓ Learn about Purdue on the Farm
- ✓ 2024 Purdue on the Farm findings
- ✓ Research opportunities for 2025

First 25 registrations receive a \$350 honorarium. Meals are provided.

**MRCC** Midwestern Regional Climate Center **PURDUE UNIVERSITY** Purdue On The Farm

### WORKSHOP

**Date:**  
Friday, March 14, 2025

**Time:**  
8:30 Registration  
9:00 AM - 12:00 PM - Climate Tools  
12:00 - 3:00 PM - Purdue on the Farm

**Location:**  
Indiana Soybean Alliance  
8425 Keystone Crossing #200  
Indianapolis, IN 46240

**Registration REQUIRED By March 7:**  
<https://bit.ly/USB-Indianapolis>

**Email**  
MRCC: [mrcc@purdue.edu](mailto:mrcc@purdue.edu)  
Purdue on the Farm: [potf@purdue.edu](mailto:potf@purdue.edu)

**Websites**  
<https://mrcc.purdue.edu>  
<https://purdue.ag/onthefarm>

Purdue University is an equal access/equal opportunity university.

## WPS Training

The USEPA mandates pesticide safety training for employees who encounter agricultural use pesticides while working at a farm, greenhouse, nursery, or forest and do not possess a Certified Pesticide Applicators license. To ensure compliance, EHS is offering Worker Protection Standard (WPS) training at the times and location listed below. Annual training is required.

February 10, 11am – 12pm LILY 2425

February 17, 1pm – 2pm LILY 2425

February 26, 12pm – 1pm LILY 2425

Contact Jennifer Kraus,

JOIN US FOR THE

College of Agriculture **AND** College of Engineering

JOINT POSTER SESSION & NETWORKING GATHERING



**FRIDAY**  
MARCH 7<sup>th</sup>  
3 - 6:30 PM  
**MARRIOTT HALL**

The latest research, excellent food, live music, and interdisciplinary networking opportunities.

Undergraduate and Graduate students, Faculty, Staff, and Friends are all welcome to attend!

SUBMIT A POSTER OR TABLE TO: [coagnetworking@purdue.edu](mailto:coagnetworking@purdue.edu) DEADLINE: Friday, February 28<sup>th</sup>

### CUISINE

- Waffle Bar
- Cheesy Grits
- Poutine
- Butcher Block Brats
- Hawaiian Roll, Canadian Bacon, & Egg Sandwich



AVAILABLE ON DRAFT

 IPA (Brew TBD)  
NEW  
Premium Lager

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Get ahead this summer. Register Now!

**100% online & asynchronous**, designed to fit flexibly in your schedule

# AGRY 320: GENETICS

#### Overview

Introductory genetics course designed to teach fundamental principles to students with a broad range of interests. This well-organized course has been taught several times.

#### Pre-reqs

BIOL 110/11, BIOL 110 or 111 + BTNY 110, BIOL 121/131, or BTNY 110 + HORT 301

#### Dates

Course opens June 1 and begins June 13. Final exam is August 6

 **PURDUE UNIVERSITY**  
College of Agriculture



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<https://bit.ly/3Yz5X8P>

# AGRONOMY SEMINAR SERIES

## SPRING 2025

**Monday, February 17, 2025**  
**2:30 p.m. LILY 2-425**

Attend virtually via Zoom  
Seminar links will be posted at: [purdue.ag/agryseminars](http://purdue.ag/agryseminars)

### **DR. CHAD PENN**

RESEARCH SOIL CHEMIST/ADJUNCT PROFESSOR OF SOIL CHEMISTRY  
USDA-ARS NATIONAL SOIL EROSION LABORATORY AT PURDUE  
DEPARTMENT OF AGRONOMY AT PURDUE  
Faculty Host: **Dr. Yichao Rui**

### **Phosphorus Management: Feast and Famine**

Phosphorus (P) management can be a paradox. Crop growth requires appreciable amounts of phosphorus for maximizing production, yet even tiny losses from soils to surface waters can be devastating to aquatic ecosystems. The underlying foundation to understanding issues of both phosphorus fertility and water quality is soil-solution chemistry; such understanding is necessary for precision conservation efforts and developing solutions. This lecture will present an overview of current issues, challenges, and research related to soil phosphorus fertility and water quality. Specific topics will touch upon phosphorus remediation, fertilizer management, improving agronomic P recommendations, P use efficiency, and the intersection of hydrology and soil chemistry with regard to how P is transported in tile drainage.



Agronomy



Dr. Chad Penn is a Research Soil Chemist at the USDA-ARS National Soil Erosion Laboratory located on-campus at Purdue, and Adjunct Professor of Soil Chemistry in the Department of Agronomy at Purdue. He studies soil chemical processes in the context of solving agronomic and environmental problems and increasing agricultural production and efficiency while minimizing environmental impact.

This involves working on issues such as phosphorus pollution from soil to surface waters, crop nutrient use efficiency and fertilizer recommendations, and animal and industrial waste management for beneficial re-use and safe disposal. His current research is focused on nutrient solubility and kinetics, especially phosphorus, as it pertains to losses in runoff and leaching, as well as fertility. His laboratory utilizes a flow-through approach, rainfall simulation, and a state-of-the-art semi-automated indoor growth room. In addition, the National Soil Erosion Research Lab conducts watershed-scale field research within the Western Lake Erie Basin. Dr. Penn is always working to improve the efficiency and economics of phosphorus removal structures, which are landscape-scale filters for removing dissolved phosphorus before reaching a surface water body. He continues to update the P-Trap (Phosphorus Transport Removal App) software used for designing phosphorus removal structures.

# AGRONOMY SPRING 2025 SEMINAR SERIES



Agronomy

**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](http://purdue.ag/agryseminars) or by scanning the QR code below.



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