

# 2024 MU DIGITAL AGRICULTURE SYMPOSIUM

June 20- 21, 2024 at Monsanto Auditorium, and MU South Farm  
University of Missouri, Columbia, MO



Organized by Digital Agriculture Research and Extension Center (DAREC), Division of Plant Science and Technology, College of Agriculture, Food and Natural Resources of the University of Missouri at Columbia, MO

Join the Future of Farming: Smart and Sustainable Agriculture

## WHY ATTEND

- Insights from Experts:** Farming Systems, Digital Agriculture, Climate Prediction and Monitoring, and Sustainable Agriculture
- Hands-On Demos:** Experience self-driving tractors, drones, and more
- Innovative Research:** Delve into soil health, sustainability, and digital farming solutions
- Collaboration:** Network with academia, industries, and other stakeholders
- Student Engagement:** Participate in the poster competition and reception

## KEY DELIVERABLES

- Keynote speeches and panel sessions with industry leaders
- Interactive farm tour showcasing the latest AgriTech
- Collaborative sessions for innovation in sustainable farming practices
- Opportunities for networking and future research partnerships

## GOAL:

The symposium aims to build a community in digital agriculture and shape a common vision about the farm of future. Our goal is to converge the research and technology to make farming smarter and more sustainable, responding to climate challenges. We're focused on creating a forum where scientists, engineers, professionals and stakeholders from different fields can share digital agriculture practices, benefitting education and farming in Missouri and beyond.



## FOR MORE INFORMATION AND REGISTRATION:

Website:

<https://darec.missouri.edu/symposium>

Email: [zhoujianf@missouri.edu](mailto:zhoujianf@missouri.edu)



Digital Agriculture  
Research & Extension Center  
University of Missouri



College of Agriculture,  
Food & Natural Resources  
University of Missouri



USDA  
Agricultural Research Service  
U.S. DEPARTMENT OF AGRICULTURE

# 2024 MU DIGITAL AGRICULTURE SYMPOSIUM PROGRAM

**Day 1: Research Day - June 20, 2024**

**Location: Monsanto Auditorium  
University of Missouri, Columbia, MO**

## MORNING SESSIONS

- 08:00 - 09:00 AM: Registration, Continental Breakfast, Poster Setup

### Opening Remarks and DAREC overview

- 09:00 AM - 09:10 AM: Welcome from **Dr. Shibu Jose**
- 09:10 AM - 09:20 AM: Welcome from **Dr. Rob Kallenbach**
- 09:20 AM - 09:35 AM: Program and DAREC overview: **Dr. Jianfeng Zhou**

### Invited Speakers and Panel

- 09:40 - 10:10 AM: **Dr. Zachary Leasor**
- 10:15 - 10:45 AM: **Dr. Ignacio Ciampitti**
- 10:45 - 11:00 AM: Coffee Break
- 11:00 - 11:30 AM: **Mr. Scott Drummond**
- 11:30 - 12:00 PM: Panel Discussion
  - Moderator: **Dr. Ken Sudduth**

**Lunch: 12:00 - 1:00 PM**

## AFTERNOON SESSIONS

- 1:00 - 1:35 PM: Soil Health
  - Lead Speaker: **Dr. Kristen Veum**
- 1:35 - 2:10 PM: Sustainable Environment and water
  - Lead Speaker: **Dr. Noel Aloysius**
- 2:10 - 2:45 PM: Social & Economic Implications
  - Lead Speaker: **Dr. Mary Hendrickson, and Dr. Jenny Melo Velasco**
- 2:45 PM - 3:00 PM **Break**
- 3:00 - 3:30 PM: Technology innovation and sustainability
  - Invited Speaker: **Dr. Steven Thomson**
- 3:30 - 4:00 PM: Interaction and research proposal development (SAS)
  - Moderators: **DAREC Team**
- 4:00 - 6:00 PM: Poster Session, Student Competition and Reception
  - Moderators: **DAREC Team**

**Day 2: Technology Day - June 21, 2024**

**Location: MU Digital Farm, MU South Farm, Columbia, MO**

- 9 - 10 AM: Open remarks and technology overview
  - Coordinator: **Prof. Kent Shannon**
  - **Symposium organizing committee**
- 10 - 11:30 AM: Digital Farm Tour
  - Technology Demonstrations
  - Mapping Drones and Sensors, Sprayer
  - Self-Driving Tractor Showcase
  - Latest Agricultural Equipment
- 11:30 - 12 PM: Reflection and wrap up
- 12 PM: Lunch and dismissal

**Parking and Direction**



Parking and Entrance @ Jefferson Farm & Garden

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## Invited Speakers and Panel



**Dr. Ignacio Ciampitti**  
Professor - Farming Systems,  
Department of  
Agronomy - K-State University



**Dr. Zack Leasor**  
Assistant Professor in Climate  
Science at the University of  
Missouri



**Mr. Scott Drummond**  
Senior Data Scientist, Corteva  
Agriscience



**Dr. Noel Aloysius**  
Assistant Professor in Department  
of Chemical and Biomedical  
Engineering at the University of  
Missouri



**Dr. Kristen Veum**  
Research Soil Scientist  
USDA-ARS Cropping Systems and  
Water Quality Research



**DR. Steven Thomson**  
National Program Leader  
Division of Agricultural Systems  
USDA - National Institute of Food  
and Agriculture

## COORDINATOR AND MODERATOR



**Prof. Kent Shannon**  
Assistant Teaching Professor  
in Ag Systems Technology at  
the University of Missouri



**Dr. Jianfeng Zhou**  
Associate Professor of Ag  
Engineering  
Plant Science and Technology,  
University of Missouri



**Dr. Ken Sudduth**  
Research Leader and  
Agricultural Engineer  
USDA-ARS Cropping Systems  
and Water Quality Research