



Champaign Ag in the Classroom Presents Summer Ag Institute 2024

July 10, 2024

1-Day Presentation and Tours
Presented by: Champaign County
Ag in the Classroom &
Illinois Ag in the Classroom



July 11-12, 2024

2-Day Science Teacher Workshop
In Collaboration with: USDA Future
Scientists Program, Agriculture Research
Service (ARS) & IL Center for Agricultural
Engagement/IFB

Day 1: Champaign County AITC

Tony Noel Center, Parkland College
2400 W Bradley Ave, Champaign, IL
8:30 am - 4:00 pm

Day 2: Dr. Craig Wilson/IAITC

National Soybean Research Facility
1101 W. Peabody Dr. Urbana, IL
8:30 am - 4:00 pm

Day 3: Dr. Craig Wilson/IAITC

USDA/ARS Global Change &
Photosynthesis Research Lab
147 ERML, 1201 W. Gregory Dr. Urbana, IL
8:30 am - 3:30 pm

Cost:

- \$50 per participant

Includes:

- Meals, Snacks & Drinks
- Meal Worm Rearing Kit
- Interact with NCAUR Scientists
- Hungry Planet Book & Lessons
- How to Integrate Agricultural Research
- Professional Development Clock Hours (PDCH) through ROE
- And much more!

Suggested Grade Levels:

- Upper elementary to High School
- 5th-12th grade

How to Register:

- Space is limited to 20 participants

- **To Sign Up: ccfbfoundation.com/sai**

- Questions? sarah@ccfarmbureau.com

Deadline for sign up is June 21

One-Day Champaign County Ag in the Classroom Workshop July 10, 2024

DAY ONE | July 10, 2024 | Champaign, IL

Tony Noel Agricultural Technology Applications Center at Parkland College
2400 W Bradley Ave, Champaign, IL 61821

8:30 am	Welcome Registration Opening Remarks and Introductions Schedule of the week	Sarah Kaper , Champaign County AITC Director Julie Adcock , Champaign County AITC Educator
8:45 am	Promo CCAITC Resources: Tower Gardens, Incubators, Ag Mags, IL Mapping lesson	Sarah Kaper and Julie Adcock
9:00 am	IL Ag in the Classroom book suggestions and lessons for upper elementary through high school classrooms that can be used next school year. Hands-on and engaging!	Illinois Center for Agriculture Engagement Stephanie Hospelhorn
11:45 am	Working Lunch @ Maize 100 N. Chestnut Champaign, IL	Armondo ?
1:00 or 1:15 pm	UIUC Pollinatarium 606 W Windsor Rd. Urbana, IL 61801 https://pollinatarium.illinois.edu	Lesley Deem
2:00	UIUC Poultry Research Facility 3603 S Race St. Urbana, IL 61802	Sarah Womack
3:00	UIUC Energy Farm 4110 S Race St, Urbana, IL 61802 https://energyfarm.illinois.edu	Tim Mies
4:00	Close of day	

Two-day Science Teacher Workshop July 11 & 12, 2024

In collaboration with the USDA Future Scientists Program & Illinois Center for Agricultural Engagement/Illinois Farm Bureau

DAY TWO July 11, 2024 Urbana, IL USDA/Agricultural Research Service (ARS) Soybean/Maize Germplasm, Pathology, and Genetics Research Lab 1101 W. Peabody Drive, Urbana, IL 61801		
8:30 am	Welcome Opening Remarks and Introductions	Dr. Steven Clough , Lab Director Dr. Lisa Ainsworth , Research Molecular Biologist Kevin Daugherty , Director Illinois Center for Agriculture Engagement Sarah Kaper , Champaign County AITC Dr. Wilson , Director, USDA Future Scientists Program
8:45 am	Overview of USDA/ARS Introduction to Science Learning as a 3-step process Alignment with NGSS: <ul style="list-style-type: none"> Practices: observe, ask questions, experiment, model Core Ideas: Intertwine Physical Science, Life Science, Earth & Space Science and Engineering Technology and the application of science. Cross-curricular concept: Structure and function. The way an object is shaped or structured determines its properties and function from pollen to drones. Use of digital microscopes (Technology) to enhance observation skills. Flower structure and pollen Palynology (Science of pollen)	Dr. Wilson , Director, USDA Future Scientists Program
9:30 am	Soybean/Maize Germplasm, Pathology, and Genetics Research	

10:15 am	Break	
10:30 am	Illinois Center for Agricultural Engagement THE HUNGRY PLANET	Illinois Ag in the Classroom Kevin Daugherty &
11:00 am	Soybean/Maize Germplasm, Pathology, and Genetics Research	
12:00 pm	Lunch	Provided on site
12:30 pm	Raising and studying mealworms in the classroom (<i>Tenebrio molitor</i>) Styrofoam diet Observations with digital microscopes	Dr. Wilson , Director, USDA Future Scientists Program
1:00 pm	Illinois Center for Agricultural Engagement IAITC Soil Experiments	Illinois Ag in the Classroom Kevin Daugherty &
1:30 pm	Break	
1:45 pm	Drive to field location	
2:00 pm	Soybean repository	
1:45 pm	Soybean/Maize Germplasm, Pathology, and Genetics Research FIELD RESEARCH plots	
4:00 pm	Close of day	

DAY THREE | July 12, 2024 | Urbana, IL

**** New location: USDA/ARS/Global Change & Photosynthesis Research Lab
147 ERML, 1201 W. Gregory Drive, Urbana, IL 61801**

8:30 am	Global Change & Photosynthesis Research	
9:30 am	'Miracle Monarch Butterfly Migration' & Building a school pollinator garden	Dr. Wilson , Director, USDA Future Scientists Program
10:00 am	Break	
10:15 am	Global Change & Photosynthesis Research	
11:15 am	Illinois Center for Agricultural Engagement IAITC STEM ACTIVITIES	Illinois Ag in the Classroom Chris Wyant &
12:00 pm	Lunch	Provided on site
12:30 pm	Illinois Center for Agricultural Engagement GRAPHIC NOVELS and Agriculture	Illinois Ag in the Classroom Chris Wyant &
1:00 pm	Global Change & Photosynthesis Research	
1:30 pm	Break	
1:45 pm	Drive to field location	
2:00 pm	Soybean Free Air CO ₂ Enrichment (SoyFACE) experimental Research Site	
3:00 pm	Examining various imaging sensors	

3:30 pm	<p>Bug sweep nets & Butterfly nets</p> <p>Sweeping outdoors and examining "catch" with digital microscopes</p> <p>-----</p> <p>Keeping in touch during the year/follow up: Dr. Wilson's school visits Scientists/Technicians school visits and class visits to the Research labs</p>	<p>Dr. Wilson, Director, USDA Future Scientists Program</p>
4:00 pm	Close of day	