

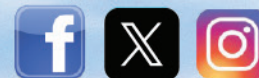


# CAES

The Connecticut Agricultural Experiment Station

Putting Science to Work for Society since 1875

# The 114<sup>th</sup> Plant Science Day



#CT\_CAES

## Wednesday, August 7, 2024 • 10am-4pm

— Free Admission —

# OPEN HOUSE

## THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

LOCKWOOD FARM - 890 EVERGREEN AVENUE, HAMDEN, CT

THE SAMUEL W. JOHNSON LECTURE • PRESENTATIONS ON RESEARCH • BARN EXHIBITS • PESTICIDE CREDITS  
FIELD EXPERIMENTS • TECHNICAL DEMONSTRATIONS • CENTURY FARM AWARD • PASSPORT FOR CHILDREN

### “Adventures in Apple Breeding”

**Susan K. Brown, Ph.D.**

**Herman M. Cohn, Professor of Agriculture and Life Sciences**

School of Integrative Plant Science, Horticulture and Plant Breeding Sections Cornell AgriTech

*Susan Brown is the Herman M. Cohn Professor of Agriculture and Life Sciences at Cornell University and a faculty member in the sections of Horticulture and Plant Breeding and Genetics in the School of Integrative Plant Science. Susan leads the Cornell apple breeding program and in addition to her research, she has named eight sweet cherries, one tart cherry and seven apple varieties, with the managed varieties SnapDragon™ and RubyFrost™ the most well-known releases. ‘SnapDragon’ (NY 1) is the official apple of the NFL’s Buffalo Bills team. Among her awards, Susan was a NY State Senate Woman of Distinction in 2014, received the American Pomological Society’s Wilder Medal in 2016 for her contributions to Pomology and was named a Fellow of the American Society of Horticultural Sciences in 2019.*



New Haven 203.974.8500 • Toll-free 877.855.2237 • [portal.ct.gov/caes](http://portal.ct.gov/caes)

*The Experiment Station is a state-supported scientific research institution where theory and practice have marched together to improve the well-being of Connecticut.*

**DIRECTIONS: FROM INTERSTATE 91 TRAVELING NORTH:** Take Exit 10. Follow the Route 40 connector for 3.1 miles. Turn right onto Whitney Avenue (Route 10) and go north for 0.6 miles. Turn left onto Evergreen Avenue at the traffic light; go 0.1 mile and turn right onto Kenwood Avenue. The farm is on the left; enter the 2nd driveway.

**TRAVELING SOUTH:** Take Exit 10. Follow the Route 40 connector for 3.0 miles. Turn right onto Whitney Avenue (Route 10) and go north for 0.6 miles. Turn left onto Evergreen Avenue at the traffic light; go 0.1 mile and turn right onto Kenwood Avenue. The farm is on the left; enter the 2nd driveway.

# The 114<sup>th</sup> Plant Science Day

Wednesday, August 7, 2024

**NO PETS, PLEASE. SERVICE ANIMALS ONLY. RAIN OR SHINE FREE ADMISSION**

Gates open at 9:30 am  
Programs begins at 10:00 am • Event 10:00 am - 4:00 pm

**10:00 a.m. – 10:15 a.m. PAVILION**  
**MORNING GREETING AND OPENING REMARKS**  
Jason C. White, Ph.D., Director  
The Connecticut Agricultural Experiment Station

**10:15 a.m. - 10:45 a.m. PAVILION**  
Hany Dweck, Ph.D., Assistant Agricultural Scientist II, Department of Entomology  
*Harnessing Chemical Ecology for Protecting Fruit Crops from Spotted Wing Drosophila*

**10:15 a.m. – 10:35 a.m. TECHNICAL DEMONSTRATION TENT**  
*(20-minute demonstration, repeated twice during the day, 10:15 a.m. & 2:30 p.m.)*  
Jeremiah R. Foley IV, Ph.D., Assistant Agricultural Scientist II, Department Environmental Science and Forestry  
*How to Prevent the Spread of Aquatic Invasive Species (AIS)*

**10:40 a.m. – 11:00 a.m. TECHNICAL DEMONSTRATION TENT**  
*(20-minute demonstration, repeated twice during the day, 10:40 a.m. & 3:15 p.m.)*  
Joseph Liquori, Agricultural Research Technician I, Department of Plant Pathology and Ecology  
*Get Crafting with Grafting: Tomato/Potato Plant*

**10:45 a.m. - 11:05 a.m. PAVILION**  
**CENTURY FARM AWARD**  
Geremia Farms, Wallingford, CT

**11:05 a.m. – 11:15 a.m. PAVILION**  
**EXPERIMENT STATION ASSOCIATES**  
Cheryl Cappiali, President, Experiment Station Associates

**11:15 a.m. – 12:00 noon PAVILION**  
**THE SAMUEL W. JOHNSON MEMORIAL LECTURE**  
Susan K. Brown, Ph.D.  
Herman M. Cohn Professor of Agriculture and Life Sciences  
School of Integrative Plant Science, Horticulture and Plant Breeding Sections  
Cornell AgriTech  
*Adventures in Apple Breeding*

**12:45 p.m. - 1:15 p.m. LUNCH**

**1:15 p.m. - 1:45 p.m. PAVILION**  
Raquel Rocha, Ph.D., Assistant Agricultural Scientist II, Department of Plant Pathology and Ecology  
*Managing Root-Knot Nematodes in Connecticut: Current Research Initiatives at CAES*

**1:45 p.m. - 2:15 p.m. PAVILION**  
Andrea Gloria-Soria, Ph.D., Assistant Agricultural Scientist II, Department of Entomology  
*New Challenges in Vector Control and How Population Genetics Can Help*

**2:15 p.m. PAVILION**  
Adjourn Main Talks

**2:30 p.m. – 2:50 p.m. TECHNICAL DEMONSTRATION TENT**  
*(20-minute demonstration, repeated twice during the day, 10:15 a.m. & 2:30 p.m.)*  
Jeremiah R. Foley IV, Ph.D., Assistant Agricultural Scientist II, Department Environmental Science and Forestry  
*How to Prevent the Spread of Aquatic Invasive Species (AIS)*

**3:15 p.m. - 3:35 p.m. TECHNICAL DEMONSTRATION TENT**  
*(20-minute demonstration, repeated twice during the day, 10:40 a.m. & 3:15 p.m.)*  
Joseph Liquori, Agricultural Research Technician I, Department of Plant Pathology and Ecology  
*Get Crafting with Grafting: Tomato/Potato Plant*

**3:35 p.m. TECHNICAL DEMONSTRATION TENT**  
Adjourn Technical Demonstrations

**3:35 p.m. SIGN-OUT**  
*(For those requesting pesticide credits) (R)*  
Attendees can pick up their Pesticide Credit forms at the registration table (R).

## BARN EXHIBITS (BARN B)

### Nanotechnology in Agriculture

#### Department: Analytical Chemistry

Investigators: Nubia Zuverza-Mena, Ph.D., Yi Wang, Ph.D., Christian Dimkpa, Ph.D., and Jason C White, Ph.D., assisted by Milica Pavlicevic, Ph.D., Trung Huu Bui, Ph.D., Raja Muthuramalingam, Ph.D., Jingyi Zhou, Ph.D., Chaoyi Deng, Ph.D., Paul Aikpokpodion, Ph.D., Hina Ashraf, Ph.D., John Ranciato, and Craig Musante.

### Mighty Monarchs and Busy Bumblebees

#### Department: Entomology

Investigators: Kelsey E. Fisher, Ph.D., and Breahna Gillespie, Ph.D. assisted by Karena Kulakowski, Dom Rowland, and Emma Donahy

### Changes in Connecticut's Forest Composition Following Pest and Pathogen Invasions

#### Department: Environmental Science and Forestry

Investigator: Elisabeth B. Ward, Ph.D.

### Managing Root-Knot Nematodes in Connecticut: Current Research Initiatives

#### Department: Plant Pathology and Ecology

Investigator: Raquel Rocha, Ph.D. Assisted by Monique Rodrigues e Silva, Tobi Okunade, and Andrew Medina

### Post-Doctoral Life and Research

#### Department: The Connecticut Agricultural Experiment Station (CAES) Post-Doctoral Association (PDA)

Investigators: Rebecca M. Johnson, Ph.D., David J. Giesbrecht, Ph.D., Ravikummar R. Patel, Ph.D., Stephen J. Taerum, Ph.D., and many others.

### Collaborations to Manage Hemlock Woolly Adelgid with Biological Control in Connecticut Riparian Forests: The Farmington River, a Case Study

#### Department: Valley Laboratory

Investigator: Carole A. S. J. Cheah, Ph.D.

### ANSWERS TO YOUR QUESTIONS (Plot 15)

Staff members in the “questions and answers” tent are prepared to give information on identification of insects, plant disorders, soils and their management, and other problems of growers and gardeners.

### KIDS' KORNER (Plot 20)

Come to the Kids' Korner to pick up your child's passport and a gift.

### SELF-GUIDED ACTIVITY (Plot 20)

For all children, including Girl Scouts

### CONNECTICUT PESTICIDE CREDITS (Registration, R)

Connecticut pesticide credits will be offered. All categories and private applicator (PA) category/3.25 total credit hours.

