



Plant Science Day

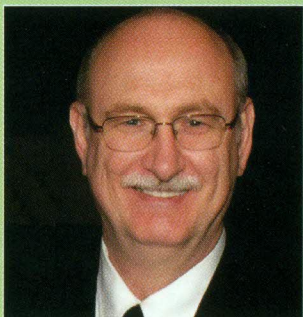
WEDNESDAY, AUGUST 7, 2013 • 10AM-4PM

OPEN HOUSE

**FREE
ADMISSION**

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION
LOCKWOOD FARM, 890 EVERGREEN AVENUE, HAMDEN

*The Samuel W. Johnson Lecture • Presentations on Research • Barn Exhibits • Pesticide Credits
Field Experiments • Technical Demonstrations • Century Farm Award • Passport for Children*



CAPT.
Michael A. McLaughlin,
Ph.D.

Director (Acting), Food
and Feed Scientific Staff
(ORS/ORAFDA)

FDA Food Emergency
Response Network
(FERN) National Program
Office Director (Acting)

Science Coordinator-
Chemistry
(ORS/ORAFDA)

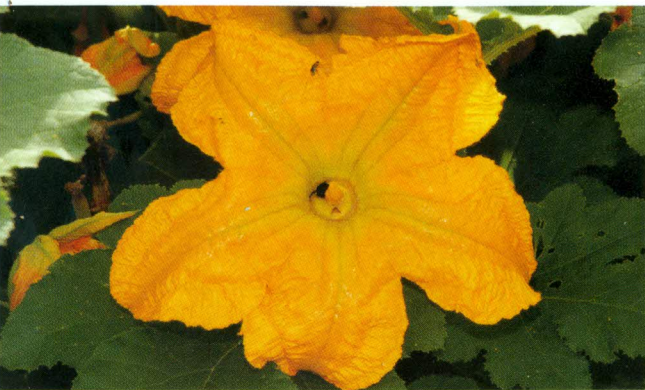
Chemistry Lead- FDA
Food Emergency
Response Network (FERN)
National Program Office

CAPT McLaughlin has been with FDA 26+ years, the first 23 as a laboratory research chemist with FDA/Center for Food Safety and Applied Nutrition (CFSAN). His areas of interest included carbohydrate chemistry, economic adulteration, dietary fiber, and food defense. He joined FDA Office of Regulatory Affairs (ORA) in Feb 2010. His activities during his ORA tenure have included the Laboratory Lead on the FDA Deepwater Horizon (DWH, Gulf Oil Spill) Incident Management Group (IMG). He has also been involved in coordinating FERN labs in testing for analytes such as arsenic in different foods. As a Public Health Service officer, his responsibilities include readiness to respond to man-made and natural disasters. He was a member of the PHS-1 DMAT (Disaster Medical Assistance Team) from 1993 - 2005 and has been the Chief Logistics Officer for the PHS-2 RDF (Rapid Deployment Force) team since its inception in 2006. He has been involved in responses to a number of national crises such as hurricanes Marilyn, Katrina, Rita, Gustav and Sandy as well as a Sept 2001 deployment to the World Trade Center Collapse Zone. His presentation will cover the basics of the Food Emergency Response Network and the role of the Connecticut Agricultural Experiment Station in FERN national responses.

New Haven (203) 974-8500; toll-free statewide (877) 855-2237 www.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's residents since 1875***

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 second 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 second driveway.



10:00 am-10:15 am MORNING GREETING

Dr. Sharon M. Douglas, Chief Scientist, Head of the Dept. of Plant Pathology and Ecology

10:00 am-10:20 am TECH. DEMONSTRATION TENT

Mr. Mark H. Creighton, Apiary Inspector, Dept. of Entomology
Beekeeping Basics (20 min. demonstration, repeated twice during the day, 10:00 a.m. & 2:45 p.m.)

10:15 am-10:45 am MAIN TENT

Dr. Jason C. White, Analytical Chemist, Dept. of Analytical Chemistry Food Safety Research
Surveillance of Fresh and Manufactured Foods for Chemical Contamination

10:45 am-11:05 am TECH. DEMONSTRATION TENT

Mr. Gregory J. Bugbee, Soil Scientist, Department of Environmental Sciences
Soil Testing to Improve Plant Growth (20 min. demonstration, repeated twice during the day, 10:45 am & 3:10 pm)

10:45 am-11:15 am MAIN TENT

Dr. Robert E. Marra, Forest Pathologist, Dept. of Plant Pathology and Ecology
Tropical Storms, Hurricanes, and Superstorms: Their Impact and Influence on Tree Diseases

11:15 am-11:30 am GREETING & DIRECTOR'S REPORT

11:30 am-11:50 am CENTURY FARM AWARD

Holmberg Orchards, Gales Ferry, CT

11:50 am-11:55 am EXPERIMENT STATION ASSOCIATES

Mr. Richard Bergmann, President Experiment Station Associates

11:55 am-12:30 am MAIN TENT

THE SAMUEL W. JOHNSON MEMORIAL LECTURE

Captain Michael A. McLaughlin, Ph.D.

1:30 pm-2:00 pm MAIN TENT

Dr. Abigail A. Maynard, Horticulturist, Dept. of Forestry and Horticulture
The New Crops Program: Helping Connecticut's Vegetable Growers

2:00 pm-2:30 pm MAIN TENT

Dr. Richard S. Cowles, Entomologist, Valley Laboratory
Spotted Wing Drosophila Biology and Management

2:45 pm-3:05 pm TECHNICAL DEMONSTRATION TENT

Mr. Mark H. Creighton, Apiary Inspector, Department of Entomology
Beekeeping Basics (20 min. demonstration, repeated twice during the day, 10:00 a.m. & 2:45 p.m.)

3:10 pm-3:30 pm TECH. DEMONSTRATION TENT

Mr. Gregory J. Bugbee, Soil Scientist, Department of Environmental Sciences
Soil Testing to Improve Plant Growth (20 min. demonstration, repeated twice during the day, 10:45 a.m. & 3:10 p.m.)



The 103rd
Plant Science Day

WEDNESDAY, AUGUST 7

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

No Pets, Please. Service Animals Only • Rain or Shine

CONNECTICUT PESTICIDE CREDITS
(Registration, R)

If you are interested in obtaining pesticide credits, you must sign in at the registration desk (R) at the start of the day, between 9:30 am-10:00 am, collect signatures of the talks, demonstrations and tours attended, and sign out to pick up your pesticide credit form at 3:30 p.m. at reg. desk (R). Connecticut Pesticide Credits Offered:

ALL SUPERVISORY CATEGORIES and PRIVATE APPLICATORS (PA) / 3.75 Credit Hours.

PESTICIDE CREDIT TOUR

(Meet at Barn A) **12:15 pm-1:15 pm**

A one-hour guided tour of selected field plots will be conducted by Dr. Robert E. Marra. Participants can discuss experiments and topics with scientists at each station on the tour.

LOCKWOOD FARM WALKING TOUR

(Meet at the Registration Desk, R) **2:35 pm-3:35 pm**

A one-hour guided tour of selected field plots. Participants can discuss experiments and topics with scientists at each station on the tour.

Approximately ½ mile, moderately hilly

TOUR OF NATIVE WOODY SHRUBS

(Meet at the wood arbor of the native woody shrubs) (Plot 44) **1:00-1:30 pm**

A ½-hour guided tour of our native shrub planting. Learn about using native shrubs for naturalistic landscapes without the use of pesticides and fertilizers.

BIRD AND BUTTERFLY GARDEN EVENTS
(Plot 45)

ON THE HOUR starting at 10:00 am-3:00 pm
"Butterfly Identification Walk"
(Meet at the Bird and Butterfly Information Table)

BARN EXHIBITS (BARN B)

DEPARTMENT: BIOCHEMISTRY AND GENETICS

Transporters are "Gatekeepers" in Plant Biochemistry

Plants make everything from scratch. This includes the thousands of metabolites needed for life starting with assimilated CO₂ from photosynthesis and phosphate, nitrogen, sulfur and other important elements absorbed from the soil through the roots.

DEPARTMENT: ENTOMOLOGY

Emerald Ash Borer in Connecticut

This invasive Asian beetle attacks and kills healthy ash trees. Learn more about the beetle, what CAES and other state agencies are doing to combat it, and how you can help to slow the spread of emerald ash borer.

DEPARTMENT: ENVIRONMENTAL SCIENCE

Saving Our Lakes from Invasive Plants

Connecticut's lakes and ponds face an imminent threat from invasive plants. Their dense stands disrupt native ecosystems, interfere with recreation, and lower property values.

DEPARTMENT: FORESTRY AND HORTICULTURE

Crop Tree Release at Canopy Closure Benefits Oak

The effects of crop tree release on growth and stem quality of red oaks was examined over a 24-year period at seven study areas that were established in 1988.

DEPARTMENT: PLANT PATHOLOGY AND ECOLOGY

Sudden Vegetation Dieback in Connecticut's Salt Marshes

Sudden Vegetation Dieback (SVD) is a phenomenon occurring along the tidal creek banks in Connecticut's salt marshes where there has been a sudden and rapid decline of the marsh grass, *Spartina alterniflora*. Recovery is very slow depending on the site.

DEPARTMENTS: VALLEY LABORATORY AND ANALYTICAL CHEMISTRY

Strategies to Reduce Fungicide Residues on Tobacco

To maintain their value tobacco plants must be protected from diseases such as Blue Mold. This can be done through the use of fungicides, however, fungicide residues are also undesirable. We are exploring strategies that growers can use to reduce these residues while maintaining control of this disease.

ANSWERS TO YOUR QUESTIONS

(Plot 19)

Staff members answer your questions on identification of insects, plant disorders, soils and their management, and other problems of growers and gardeners.

KID'S KORNER (Plot 32)

Come to the *Kid's Korner* to pick up your child's passport and a goody bag.

SELF-GUIDED

ACTIVITY for all children including *Girl Scouts* (Plot 31)

