

STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION



THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

STATION NEWS
PUTTING SCIENCE TO WORK FOR SOCIETY

The mission of The Connecticut Agricultural Experiment Station is to develop, advance, and disseminate scientific knowledge, improve agricultural productivity and environmental quality, protect plants, and enhance human health and well-being through research for the benefit of Connecticut residents and the nation. Seeking solutions across a variety of disciplines for the benefit of urban, suburban, and rural communities, Station scientists remain committed to "Putting Science to Work for Society", a motto as relevant today as it was at our founding in 1875.



VOLUME 4, ISSUE 2

Departmental News

Administration	2
Analytical Chemistry	2
Entomology	4
Environmental Sciences	6
Forestry and Horticulture	5

FEBRUARY 2014

Plant Pathology and Ecology	7
Valley Laboratory	8
Departmental Research Updates	9
Articles of Interest	12
Journal Articles Approved	14





STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

DEPARTMENTAL NEWS

ADMINISTRATION

DR. THEODORE ANDREADIS attended an Invasive Council Meeting in Hartford (January 7); was interviewed about testing of medical marijuana by Greg Hladky, Hartford Advocate and CT.com (January 7); attended a Board Meeting of the Experiment Station Associates held at the Station (January 7); interviewed about the potential impact of this winter's extreme cold temperatures on a variety of insect pests by Jane Speigel, Connecticut Mirror (January 8); with **DR. JASON WHITE** attended a regular meeting of the State Commission on Human Rights and Opportunities held in Hartford where the Station's Affirmative Action Plan was approved (January 14); presided over a quarterly meeting of the Station's Board of Control held in Hartford (January 15); presented an update on building and research activities at the Annual Meeting of the Connecticut Tree Protective Association held in Southington (January 16); was interviewed about current and future Station research initiatives on global climate change and agriculture, the environment and public health by Eric Ellman, Communications Director, Yale Climate and Energy Institute (January 22); with **DR. JASON WHITE** attended a meeting with Dr. Gregory Weidman, Dr. Cameron Faustman, and Dr. Michael O'Neil of the University of Connecticut's College of Agriculture and Natural Resources to discuss the 2015 Plan of Work (January 23); attended a meeting of representatives from the Connecticut Farm Bureau and the Connecticut's Nursery and Landscape industry to discuss upcoming issues in the 2014 legislative session (January 24); attended a meeting of the Governor's Council for Agricultural Development held in Hartford (January 29).

ANALYTICAL CHEMISTRY

DR. JASON C. WHITE attended the monthly Laboratory Preparedness Advisory Group Meeting at the CT Department of Public Health Laboratory in Rocky Hill CT (January 6), along with **MS. KITTY PRAPAYOTIN-RIVEROS**, **MS. TERRI ARSENAULT**, **DR. BRIAN EITZER**, **MR. CRAIG MUSANTE**, **MR. MICHAEL CAVADINI**, **DR. CHRISTINA ROBB**, **MR. JOSEPH HAWTHORNE**, and **DR. WALTER KROL** participated in the monthly FDA FERN chemistry cooperative agreement program (cCAP) teleconference call (January 9), along with **DR. THEODORE A. ANDREADIS** attended the Commission on Human Rights and Opportunities Meeting on the CAES 2013/2014 Affirmative Action Plan at the Legislative Office Building in Hartford (January 14), along with **MS. KITTY PRAPAYOTIN-RIVEROS**, **MS. TERRI ARSENAULT** and **DR. WALTER KROL** participated in an ISO 17025 Mentor/Mentee Conference Call with Ohio Department of Agriculture (January 22), along with **DR. THEODORE A. ANDREADIS** attended a meeting at the University of Connecticut to discuss unified reporting and collaborative projects with Dr. Gregory Weidemann, Dean and Director of the College of Agriculture and Natural Resources at the University of Connecticut, and his staff (January 23), along with **MR. JOSEPH HAWTHORNE**, **DR. ROBERTO DE LA TORRE-ROCHE**, **DR. ALIA SERVIN** and **DR. JOSE ANGEL HERNANDEZ-VIEZCAS** attended the Toxi-Rounds seminar at the Public Health Laboratory in Rocky Hill CT which was presented by Dr. Charles Mackay of Hartford Hospital and focused on clenbuterol and fentanyl adulteration of illicit drugs and also met with Mr. Jack Bennett and Ms. Sue Isch to discuss collaborative experiments on nanotoxicology (January 30).

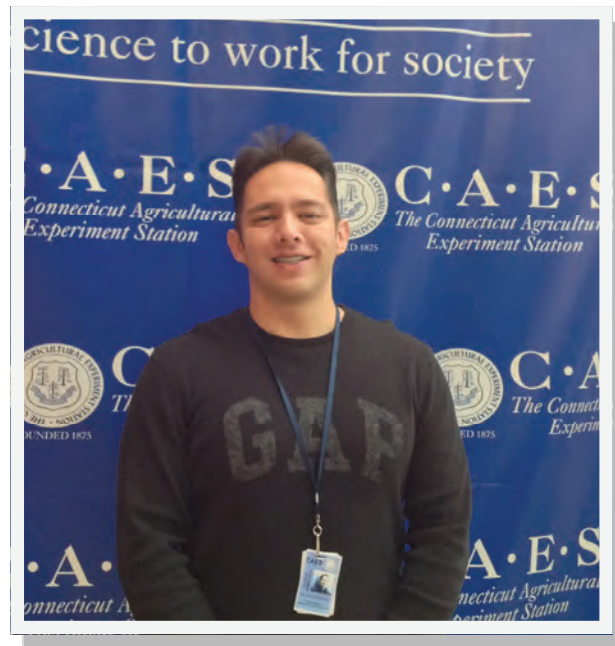


STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

DR. BRIAN EITZER gave a talk entitled “Analysis of Pesticides in Planter Exhaust Dust and Dosimeters Surrounding Fields During Planting” at the American Bee Research Conference in San Antonio, TX Jan 10-11 (50 people), was a participant in the annual meeting of the multi-state hatch grant on “Sustainable Solutions to Problems Affecting Bee Health” (NC1173) (January 10) in San Antonio, TX, along with **DR. CHRISTINA ROBB** participated in the FDA FERN Northeast Teleconference Call (January 14), and spoke to an environmental chemistry class (12 students) and presented a seminar entitled “The Use of Mass Spectrometry in the Analysis of Foods and Other Matrixes” to the Chemistry Department of Union College (50 people) in Schenectady, NY (January 30).

DR. JOSE ANGEL HERNANDEZ-VIEZCAS (pictured below) has joined the Department of Analytical Chemistry as a Post-Doctoral Research Associate. Dr. Hernandez-Viezcas completed his Ph.D. within the Department of Chemistry at the University of Texas-El Paso, with a focus on nanoparticle interactions with plants. Dr. Hernandez-Viezcas will be working in the FDA-funded Food Emergency Response Network (FERN) program and will be conducting research on the contamination of food with heavy metals and elemental nanoparticles.





STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

ENTOMOLOGY

DR. LAURA ESTEP HAYES, with **DRS. KIRBY C. STAFFORD III** and **SCOTT C. WILLIAMS**, attended a meeting in Redding to discuss the Integrated Tick Management project currently underway there with township representatives, CT DEEP representatives, and interested Redding residents (January 9); with **DR. KIRBY C. STAFFORD III**, participated in a conference call with U.S. BIOLOGIC to discuss new technologies for control of tick-associated disease (January 21).

DR. CLAIRE E. RUTLEDGE gave a talk titled "Emerald Ash Borer and Friends: Beetles to Watch Out for in 2014" at the Annual Meeting of the Connecticut Nursery and Landscape Association in Manchester (40 attendees) (January 14); staffed a table on Emerald ash borer and Asian longhorned beetle at the Annual Meeting of the Connecticut Tree Protective Association at the Aqua Turf in Plantsville (January 16); gave a talk titled "Biosurveillance: Using a Native Wasp to Find an Invasive Beetle" at the Yale School of Forestry lunchtime seminar series in New Haven (30 attendees) (January 23).

DR. VICTORIA L. SMITH participated in a meeting of the National Plant Board Systems Approach to Nursery Certification Agricultural Regulations working group, held at the Holiday Inn-Orlando Airport, located in Orlando, FL (60 participants) (January 13-17).

DR. KIRBY C. STAFFORD III, with **DRS. SCOTT C. WILLIAMS** and **LAURA E. HAYES**, participated in a meeting of the Wildlife officials from the CT Department of Energy and Environmental Protection, Redding town officials, State Representative John Shaban, and town hunters on the tick IPM project (January 9); was interviewed about the tick IPM program by Sara Hagan, Connecticut News 12 (January 9); was interviewed about winter temperatures and survival of the Emerald ash borer by Ruth Epstein, Republican-American (January 10); attended the Connecticut Nursery and Landscape Association meeting in Manchester (January 14); participated in the Annual Meeting of the Connecticut Tree Protective Association at the Aqua Turf in Plantsville (January 16); participated in a conference call of the Tick IPM Working Group (January 17); presented two talks on ticks, Lyme disease, and tick control at the Winter Lawn Care Conference of the Massachusetts Association of Lawn Care Professionals in Sturbridge, MA; one for their Technical Seminar (150 attendees) and one for their Business Owner/Manager Seminar Workshop (22 attendees) (January 23); with **DR. THEODORE ANDREAD-IS**, met with Christopher Martin, State Forester, Department of Energy and Environmental Protection, to discuss cooperative forestry items (January 24); with **DR. SCOTT C. WILLIAMS**, met with Deputy Commissioner Whalen, William Hyatt, and Rick Jacobson of the Department of Energy and Environmental Protection to discuss the tick integrated management project in Redding (January 31).

DR. KIMBERLY A. STONER presented a draft document on "Gardening in City Soils with Lead" to the Working Group on Urban Agriculture of New Haven at City Hall in New Haven (12 attendees) (January 9); distributed a survey on pollination of pumpkin and winter squash at the CT Vegetable and Small Fruit Conference in South Windsor (January 16); participated in developing a proposal for an Urban Agriculture Resource Center in New Haven as part of the Working Group on Urban Agriculture at City Hall in New Haven (16 attendees) (January 29); participated in the Town Hall Meeting of the Governor's Council on Agricultural Development in Hartford (January 29).



STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

FORESTRY AND HORTICULTURE

DR. JEFFREY WARD participated in a Connecticut Invasive Plant Council meeting in Hartford (January 7); with **JOSEPH P. BARSKY**, participated in an interagency meeting for "Forester's for the Birds" at the Audubon Connecticut Center in Southbury (January 15); spoke on "Identificación de Árboles y Arbustos" at the Seminarios en Español of the CNLA Annual Meeting in Manchester (27 attendees) (January 15); spoke on "Practical tree ID" at the CNLA Annual Meeting in Manchester (70 attendees) (January 15); attended the Connecticut Tree Protective Association annual meeting in Plainville (January 16); participated in a meeting of the Audubon Connecticut Science Committee in Middlefield to discuss forest management and birds (January 23); and participated in an executive committee meeting of the Connecticut Urban Forest Council in Middlefield (January 31).

DR. ABIGAIL MAYNARD attended a meeting of the Producer Education and Innovation working group of the Governor's Council for Agricultural Development in Hartford (January 9); attended the Connecticut Vegetables and Small Fruit Conference in South Windsor (January 16); and served on panel of the Producer Education and Innovation working group at an Agricultural Town Meeting in Hartford (January 29).

DR. SCOTT WILLIAMS hosted a conference call with members of the Northeast Section of the Wildlife Society on strategies to establish a position statement about management of overabundant suburban white-tailed deer (January 16); and with **DR. KIRBY STAFFORD**, met with Deputy Commissioner Susan Whalen, Natural Resources Bureau Chief William Hyatt, and Wildlife Division Director Rick Jacobson of the Department of Energy and Environmental Protection regarding the deer portion of the ongoing Centers for Disease Control Integrated Tick Management grant in Redding (January 21).

JOSEPH P. BARSKY provided an overview of the Roadside Forest Management Research Project to participants in the Department of Energy and Environmental Protection Chainsaw Certification Course in Portland (24 participants) (January 6); attended the annual meeting of the Connecticut Tree Protective Association in Southington (January 16); and lead a presentation on tree identification during a nature workshop for children at Great Mountain Forest in Norfolk (8 students) (January 25).



STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

ENVIRONMENTAL SCIENCES

DR. JOSEPH J. PIGNATELLO hosted Prof. Jun Ma, State Key Laboratory of Urban Water Resource and Environment, Harbin Institute of Technology, China to discuss mutual research interests (January 27).

MR. GREGORY BUGBEE participated in the PA-12-155 Nonpoint Source Phosphorus Subcommittee meeting at CTDEEP headquarters in Hartford (January 6); was the guest on the Connecticut Outdoors Radio Show (WMRD/WLIS) hosted by Suzanne Thompson on the topic of invasive aquatic plants (January 7); and with **MS. JORDAN GIBBONS** administered the supervisory aquatic license recertification program at the Northeast Aquatic Plant Management Society Annual Conference in West Brook, CT (January 21-23); and gave a talk entitled "Connecticut's Invasive Aquatic Plant Problem: Searching for Solutions" before a special meeting of the Environment Committee at the Legislative Office Building in Hartford (January 28).

DR. PHILIP ARMSTRONG spoke to a group of 15 students and one teacher from Co-op Arts and Humanities High School in New Haven about the mosquito surveillance program, as part of the Yale-Peabody Fellows SEPA NIH program on mosquito biology (January 28).

MR. JOHN SHEPARD conducted an hands-on workshop on mosquito biology to a group of 15 students and 1 teacher from Co-op Arts and Humanities High School in New Haven as part of the Yale-Peabody Fellows SEPA NIH program on mosquito biology (January 28); and participated in a Board of Directors meeting of the Northeastern Mosquito Control Association in Northboro, MA (January 31) (11 attendees).

MR. MICHAEL THOMAS hosted Postdoctoral Research Associate Roberta Engel of the Department of Biological Sciences and the Eck Institute for Global Health at the University of Notre Dame, for a tour of the mosquito rearing facilities (January 6).



STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

PLANT PATHOLOGY AND ECOLOGY

DR. SANDRA L. ANAGNOSTAKIS served as a judge for the Edible Nut Division at the Pennsylvania Farm Show in Harrisburg, PA. The Grand Champion Best in Show was a seedling heartnut, *Juglans ailantifolia* var. *cordiformis* (January 2-4).



DR. SHARON M. DOUGLAS met with Barbara Yaeger, landscape architect and ESA member, along with **MR. MICHAEL LAST**, **MS. ROBERTA OTTENBREIT**, and Dan Broyles to discuss the Louis A. Magnarelli memorial space (January 6); gave a presentation titled "Update on Key Diseases for 2014" and answered questions about plant diseases at the CNLA/CGGA Winter Symposium held at Manchester Community College (100 adult attendees) (January 14); participated in and organized the CTPA Annual Meeting and coordinated the CAES booth at the Aqua Turf in Plantsville (790 adult attendees) (January 16).

DR. WADE H. ELMER hosted a high school class from the Digital Arts Academy of East Haven High School and presented information on salt marsh dieback (10 students and 2 adults attended) (January 9); attended the annual meeting of the Connecticut Greenhouse Growers Association at Manchester Community College and accepted a memorial award for Dr. Louis Magnarelli along with a pledge to purchase a tree to be planted on the grounds in honor of Dr. Magnarelli (January 14); gave a talk titled "Cover Crops for Strawberry Disease Management" at the CT Vegetable and Small Fruit Conference in South Windsor (225 growers attended) (January 16).

DR. FRANCIS J. FERRANDINO gave a presentation titled "Winegrapes in New England: Culture, Cultivars, Weather and Disease" to the Orange Garden Club at the Case Memorial Library in Orange (32 adult attendees) (January 14).

MS. MARY K. INMAN gave a talk titled "Pruning Woody Ornamentals" to the Guilford Garden Club at the Guilford Community Center (40 adult attendees) (January 15).

DR. YONGHAO LI attended the CNLA-CGGA Winter Symposium in Manchester (January 14); staffed the CAES booth at the CTPA Annual Meeting held at the Aqua Turf in Plantsville (January 16).

DR. ROBERT E. MARRA helped staff the CAES booth at the CTPA Annual Meeting at the Aqua Turf in Plantsville (January 16); met with fellow commissioners on the West Haven Tree Commission to review planting specs for street trees (January 21).



STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

VALLEY LABORATORY

DR. RICHARD COWLES was interviewed by and assisted Lisa Foderaro of the New York Times to prepare an article on the effect of cold winter temperatures on the survival of exotic pests, which was published on (January 9) (<http://www.nytimes.com/2014/01/09/nyregion/experts-cheer-the-deep-freeze-as-a-killer-of-invasive-insects.html>); spoke on "Prepare for EAB", to the Massachusetts Tree Wardens and Foresters Association, Sturbridge, MA (175 attendees) (January 15); presented "White grubs: Time to change our control methods?", at the Connecticut Grounds Keepers Association meeting, Cromwell (200 attendees) (January 22); presented "SWD in grapes: How much of a problem?" to the Connecticut Grape Growers Association, Windsor, (15 attendees) (January 27); and spoke about "Spotted wing drosophila: Practical chemical ecology" as the Plant and Soil Sciences Departmental Seminar at the University of Vermont, Burlington, VT, (40 attendees) (January 31).

DR. JAMES LAMONDIA spoke about 'Strategies to control blue mold and reduce fungicide residues in cigar wrapper tobacco' and participated in the Tobacco Disease Council planning session during the 46th Tobacco Workers Conference held January 13 to 16, in Pinehurst, NC; participated in a meeting of the Connecticut Agricultural Information Council to plan for the Connecticut Outstanding Young Farmer Award and prepare for Ag Day at the Capital (January 22); and held a conference call with Dr. Victor Triolo and Alison Capper of the British Hop association to discuss hops research and potential collaboration (January 31).

DR. TODD L. MERVOSH attended the annual meeting of the Northeastern Weed Science Society (NEWSS) in Philadelphia, PA (January 6–9); he is the public relations representative / newsletter editor for NEWSS and served as a judge of the student research poster contest; participated in a symposium planning meeting for the Conn. Invasive Plant Working Group (January 30); and participated in a scholarship committee meeting for the Conn. Nurserymen's Foundation (January 30).



STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

DEPARTMENTAL RESEARCH UPDATES JANUARY 2014

Jorge L. Gardea-Torresdey, Cyren M. Rico, and **Jason C. White**. 2014. Trophic Transfer, Transformation, and Impact of Engineered Nanomaterials in Terrestrial Environments. *Environ. Sci. Technol.* DOI: 10.1021/es4050665.

Abstract: Engineered nanomaterials (ENMs) are released into the environment with unknown implications in the food chain. Recent findings demonstrate that ENMs may accumulate and/or increase concentrations of the component metal or carbon nanomaterials in the fruits/grains of agricultural crops, have detrimental or beneficial effects on the agronomic traits, yield, and productivity of plants, induce modifications in the nutritional value of food crops, and transfer within trophic levels. Given this information, important questions needed to be resolved include: a determination of actual or predicted concentrations of ENMs through the development of new and perhaps hybridized analytical tools, assessment of the nutritional content modifications and/or accumulation of ENMs, component metal, and co-contaminants in edible plants and their implications on human diet, nutrition, and health, assessment of the consequences of ENM-induced changes in soil health, physiological process, and yield on agricultural production and food security, and transfer of ENMs in trophic levels. Given the significant implications of ENMs exposure and the rather large knowledge gaps that exist, it will be prudent to observe judicious and targeted use of ENMs so as to minimize environmental release until a comprehensive environmental fate and effects assessment can be undertaken.

K. C. Stafford, III., S. C. Williams, L. A. Magnarelli, A. Bharadwaj, S. H. Ertel, and R. S. Nelson. 2014. Expansion of zoonotic babesiosis and reported human cases, Connecticut, 2001-2010. *Journal of Medical Entomology* 51:245-252.

Abstract: To document the expansion of human babesiosis in Connecticut, we analyzed reservoir host sera for seroreactivity to *Babesia microti* Franca and reviewed Connecticut human surveillance case data collected during 2001-2010. Sera from white-footed mice, *Peromyscus leucopus* Rafinesque, from 10 towns in 5 counties, collected at 4-7-yr periods between 2001 and 2010, were tested for total immunoglobulins. The prevalence of *B. microti*-positive mice was compared with confirmed and probable human case reports tabulated by the Connecticut Department of Public Health. The highest babesiosis and rodent seroprevalence rates were in New London County, where this protozoan disease was first documented in the state. However, human cases and reservoir host infection increased significantly from 2001-2005 to 2005-2010 and in other parts of the state. Clinicians should be aware that the disease is not confined to long-established endemic areas of the state.

One conference presentation to be published as an abstract. (Abstracts of the American Bee Research Conference are published in the American Bee Journal)

Burand, J. P., S. Zheng, and **K. Stoner**. 2014. Epizootiology of honey bee viruses in bee populations pollinating cucurbits. *American Bee Research Conference*.

Several honey bee viruses including Black Queen Cell Virus (BQCV), and Deformed Wing Virus (DWV) have been found to infect other bees including several species of bumble bees. These findings have led us to examine the possibility that these viruses move from honey bees to other bees during foraging on common floral resources. To investigate this possibility we used a molecular approach to detect the presence and prevalence of both of these viruses in bee pollinators found foraging on pumpkins (*Cucurbita sp.*) on four farms in Connecticut. The three main groups foraging on pumpkins, *Apis mellifera*, *Bombus sp.* and *Peponapis pruinosa*, were sampled 5 times at each site from early June to late September. Sampling included approximately 20 bees of each group when available. Our initial analysis has focused on BQCV which appears to be the most prevalent of the viruses in bees we have examined to date. Of the ~ 300 bees we have analyzed to date, 47% were found to be infected with BQCV. This virus was the most prevalent in *Apis* with 58% being infected, while the *Bombus* and *Peponapis* were infected at 39% and 3% respectively. The level of virus-positive bees from the different farms ranged between 4% and 58% and overall our results suggest a correlation between the level of this virus in honey bees and the level of in-



STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

fection of other bee species. On the two farm sites where we found honey bees infected with BQCV at 93% and 75%, *Bombus* bees were at 77% and 40% respectively. At the site where we found only 10% of *Apis* infected with BQCV we were able to detect only 5% BQCV infected *Bombus*, suggesting that the infection of *Apis* and *Bombus* is clustered and may be connected in some way.

Douglas, S. M. 2014. GUIDELINES FOR REPORTING AND MANAGING BOXWOOD BLIGHT IN CONNECTICUT LANDSCAPES Version 3.0. CAES Fact Sheet.

http://www.ct.gov/caes/lib/caes/documents/special_features/boxwood_blight/guide-lines_for_reporting_and_managing_boxwood_blight_in_connecticut_landscapes_version_3_01-27-14.pdf

These newly revised guidelines have been updated with information on efficacious sanitizers and cleaners for boxwood blight, caused by the fungus *Calonectria pseudonaviculata*. They also provide guidelines for installing new plantings of boxwood for different scenarios, especially when boxwood blight is found or suspected on boxwood, pachysandra, or both hosts on a property.

Douglas, S. M. 2014. SUGGESTED BEST MANAGEMENT PRACTICES FOR BOXWOOD BLIGHT FOR CONNECTICUT-POSITIVE PRODUCTION NURSERIES-Version 2.0. CAES Fact Sheet.

http://www.ct.gov/caes/lib/caes/documents/special_features/boxwood_blight/connecticut_best_management_practices_for_boxwood_blight-positive_production_nurseries_version_2.0_01-27-14.pdf

These updated best management practices include new information on efficacious sanitizers and cleaners for boxwood blight, caused by the fungus *Calonectria pseudonaviculata*. They also address remediation and management of boxwood blight for nurseries that have tested positive for this disease.

Douglas, S. M. 2014. SUGGESTED BEST MANAGEMENT PRACTICES FOR BOXWOOD BLIGHT FOR CONNECTICUT-PRODUCTION NURSERIES, DEALERS, AND GARDEN CENTERS-Version 2.0. CAES Fact Sheet.

http://www.ct.gov/caes/lib/caes/documents/special_features/boxwood_blight/connecticut_best_management_practices_for_boxwood_blight-nurseries_garden_centers_or_dealers_version_2.0_01-27-14.pdf

These updated best management practices include new information on efficacious sanitizers and cleaners for boxwood blight, caused by the fungus *Calonectria pseudonaviculata*. They also provide integrated approaches that will help to minimize the introduction of boxwood blight into a property.

Douglas, S. M. 2014. SUGGESTED BEST MANAGEMENT PRACTICES FOR BOXWOOD BLIGHT FOR CONNECTICUT-FOR LANDSCAPERS AND RESIDENTIAL, PUBLIC, AND COMMERCIAL PLANTINGS-Version 2.0. CAES Fact Sheet.

http://www.ct.gov/caes/lib/caes/documents/special_features/boxwood_blight/connecticut_best_management_practices_for_boxwood_blight-for_landscapers_and_residential_and_commercial_plantings_version_2.0_01-27-14.pdf

These updated best management practices include new information on efficacious sanitizers and cleaners for boxwood blight, caused by the fungus *Calonectria pseudonaviculata*. They also provide integrated approaches that will help to minimize the introduction of boxwood blight into a commercial or residential property.



STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

Wiederhold NP, Sutton DA, **Li DW**, Liang Y, Thompson EH, Wickes BL, Herrera ML, Rhoads SL, Mortensen JE, 2014. *Stachybotrys eucylindrospora* isolated from foreign material following a traumatic eye injury. *Mycoses*. Article first published online: 22 JAN 2014. DOI: 10.1111/myc.12173

Abstract:

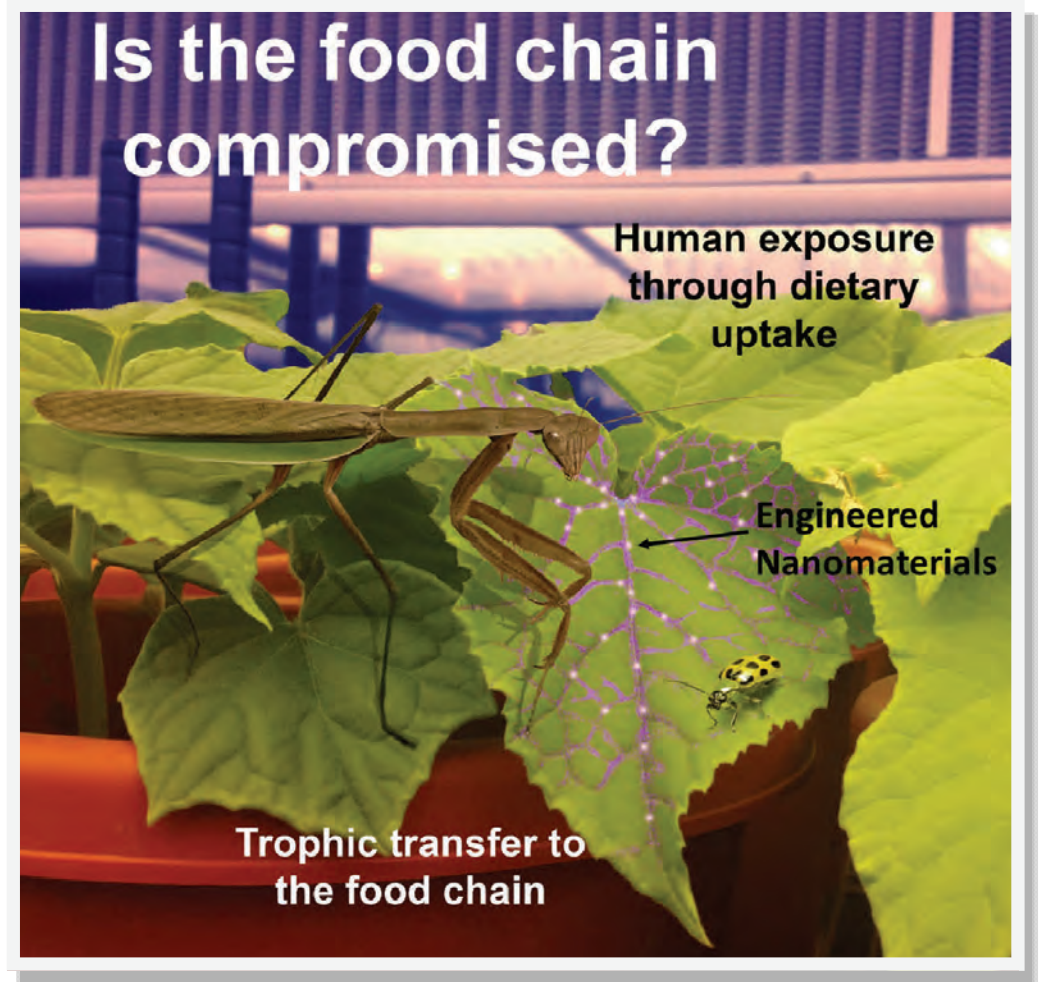
Stachybotrys eucylindrospora was characterized as a new species in 2007, and we present the first report of this organism isolated from foreign material recovered from a patient. It is probable that isolates of this species have been previously identified as either *Stachybotrys chartarum* or *Stachybotrys cylindrospora*.



STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

ARTICLES OF INTEREST JANUARY 2014



This publication was accepted in *Environmental Science and Technology*, we are going to get the cover of the next available issue. The image above **Dr. Roberto De La Torre Roche** created and worked hard on it and clearly the journal liked it enough to give us the cover.



STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION



Station staff members celebrate the Chinese New Year on January 31 in the Johnson-Horsfall Atrium.



STATION NEWS

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

JOURNAL ARTICLES APPROVED JANUARY 2014

Douglas, Sharon M. Suggested Best Management Practices for Boxwood Blight for Connecticut - Production Nurseries, Dealers, and Garden Centers-Version 2.0. *CAES Fact Sheet*

Douglas, Sharon M. Suggested Best Management Practices for Boxwood Blight for Connecticut - Positive Production Nurseries-Version 2.0. *CAES Fact Sheet*

Douglas, Sharon M. Guidelines for Reporting and Managing Boxwood Blight in Connecticut Landscapes-Version 3.0 *CAES Fact Sheet*

Li, Yonghao. Botrytis Blight of Herbaceous Ornamentals. *CAES Fact Sheet*

Li, Yonghao. Anthracnose of Cucumber. *CAES Fact Sheet*

Zhou, Li-Wei, Cao, Yun, Wu, Sheng-Hua, Vlasák, Josef, **Li, De-Wei**, Dai, Yu-Cheng. Global diversity of the *Ganoderma lucidum* complex (Ganodermataceae, Polyporales) from morphology and phylogeny based on four loci. *Phytochemistry*

Elmer, W.H., Lattao, C.V., Pignatello, J.J. Active consumption of biochar by earthworms (*Lumbricus terrestris* L): Associations with biochar properties and ability to stimulate microbial growth. *Soil Biology and Biochemistry*

Burand, J.P., Zheng, S., and **Stoner, K.** Epizootiology of Honey Bee Viruses in Bee Populations Pollinating Cucurbits. *American Bee Journal* (as part of American Bee Research Conference)

Maier, Chris T. Habitat and estimated density of *Magicicada septendecula* (Hemiptera: Cicadidae), a 17-year periodical cicada newly discovered in Connecticut. *Canadian Entomologist*

Xiang, Heng, Zhang, Ruizhi, Li, Nengzhang, **Vossbrinck, Charles, R.** Searching for convergent evolution in manganese superoxidase dismutase using hydrophobic cluster analysis. *Genetics and Molecular Biology*

**THE
CONNECTICUT
AGRICULTURAL
EXPERIMENT
STATION**

Main Laboratories
123 Huntington Street
New Haven, CT 06511-2016
Phone: 203-974-8500

Valley Laboratory
153 Cook Hill Road
Windsor, CT 06095-0248
Phone: 860-683-4977

Lockwood Farm
890 Evergreen Avenue
Hamden, CT 06518-2361
Phone: 203-974-8618

Griswold Research Center
190 Sheldon Road
Griswold, CT 06351-3627
Phone: 860-376-0365

*Putting Science to work
for Society.*



Entrance to The Connecticut Agricultural Experiment Station in New Haven on Huntington Street



Main Laboratories, New Haven



Lockwood Farm, Hamden



Griswold Research Center, Griswold



Valley Laboratory, Windsor

THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION

Back and Current issues of Station News are located on our website at <http://www.ct.gov/caes/cwp/view.asp?a=2826&q=378188>

The Connecticut Agricultural Experiment Station (CAES) prohibits discrimination in all of its programs and activities on the basis of race, color, ancestry, national origin, sex, religious creed, age, political beliefs, sexual orientation, criminal conviction record, gender identity, genetic information, learning disability, present or past history of mental disorder, mental retardation or physical disability including but not limited to blindness, or marital or family status. To file a complaint of discrimination, write Director, The Connecticut Agricultural Experiment Station, P.O. Box 1106, New Haven, CT 06504, or call (203) 974-8440. CAES is an affirmative action/equal opportunity provider and employer. Persons with disabilities who require alternate means of communication of program information should contact the Chief of Services at (203) 974-8442 (voice); (203) 974-8502 (FAX); or Michael.Last@ct.gov (E-mail).

Station News was prepared and edited by Dr. Theodore G. Andreadis, Dr. Jason C. White, Ms. Tia Blevins, Mrs. Lisa Kaczynski Corsaro, Mrs. Roberta Ottenbreit, and Mrs. Vickie Bomba-Lewandoski.