

STATION NEWS

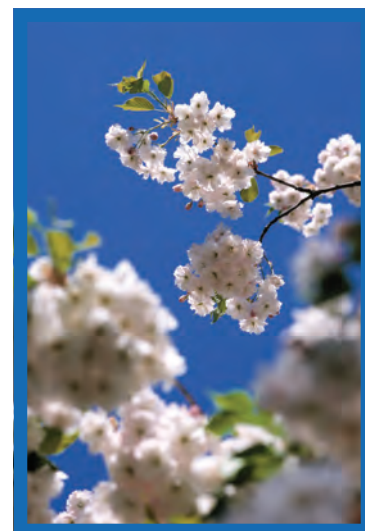
THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION



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 3, ISSUE 4

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APRIL 2013

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DEPARTMENTAL NEWS

ANALYTICAL CHEMISTRY

DR. JASON C. WHITE met with Professor Saion Sinha of the University of New Haven regarding collaborative research on nanoparticle toxicity to plants (March 1); participated in the monthly Laboratory Preparedness Network meeting at the Department of Public Health in Rocky Hill (March 5); participated in a conference call for the organizing committee of the upcoming 10th International Phytotechnologies Conference in Syracuse NY (March 14, 28); participated with **DR. BRIAN EITZER, MS. KITTIPATH PRAPAYOTIN-RIVEROS, DR. WALTER KROL, DR. CHRISTINA ROBB, MS. TERRI ARSENAULT, MR. CRAIG MUSANTE, AND MR. WILLIAM BERGER** in an FDA FERN Chemistry Cooperative Agreement Program (cCAP) conference call (March 14); spoke with Dr. Gayathri Gopalakrishnan of the Environmental Program Space Science Institute about the re-design of the International Phytotechnology Society website (March 15); organized and gave a presentation at a CT Association of the Gifted "Minds in Motion" program entitled "Disaster Response" along with the CT DPH Bioterrorism Coordinator, CT DEEP Mobile Response Laboratory, and the 14th Civil Support Team (March 16) (20 children attendees); gave a joint presentation with Dr. Charles McKay of Hartford Hospital entitled "Arsenic Food and Water Contamination" at the CT Department of Public Health (March 28) (25 attendees); and participated in an FDA FERN 50-state call on the FDA CORE Program (March 28).

DR. BRIAN EITZER participated in FDA FERN cCAP Exactive Working Group phone calls (March 7, 28) and served as a judge at the Connecticut Science Fair held at Quinnipiac University (March 13-14).

ENTOMOLOGY

MR. MARK H. CREIGHTON attended a lecture on honey bees in Worcester, MA, given by Dr. Jeffery S. Pettis from the USDA Bee Research Laboratory in Beltsville, MD (March 2); attended the Eastern Connecticut Beekeepers Association Bee School held at the Middlesex County Extension Office in Haddam (35 new beekeepers attended) (March 5); participated in a Webinar sponsored by the American Bee Federation; the lecture on honey bee disease was presented by Dr. Hoopingarner (March 12); attended a movie viewing of "Queen of the Sun," presented by the Simsbury Land Trust, and participated in a panel discussion on honey bees (40 attendees) (March 21); and attended the Backyard Beekeepers Association Meeting and spoke to members about honey bee health and the registration process, in Weston (125 attendees) (March 26).

MS. ROSE T. HISKES gave a talk on "Butterfly Gardening" to the Olde Ripton Garden Club in Shelton (28 attendees) (March 8); staffed a Forest Pest display table at the Forest Health Workshop held at the DEEP Wildlife Center in Burlington (47 attendees) (March 5); participated in a regional conference call for the Forest Pest Outreach and Survey Program (FPOSP) (March 13); participated in a State Survey Coordinator regional conference call for the Cooperative Agricultural Pest Survey Program (CAPS) (March 21); staffed a Forest Pest display table at the Perennial Plant Workshop at the Rome Ballroom at UConn in Storrs (375 attendees, 18 direct contacts) (March 21); staffed a Forest Pest display table at the Annual Master Gardener Symposium at Manchester Community College in Manchester (355 attendees, 27 direct contacts) (March 23); gave a lecture on Forest Pests to an arboriculture class at Naugatuck Valley Community College in Waterbury (16 attendees) (March 26); and participated in a meeting of the Connecticut Invasive Plant Working Group at Goodwin College in East Hartford (March 27).



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DR. CHRIS T. MAIER spoke about the “Return of the Periodical Cicada” at the Forest Health Monitoring Workshop at Sessions Woods in Burlington (47 attendees) (March 5); exhibited new entomological literature at a meeting of the Connecticut Entomological Society at UConn in Storrs (30 attendees) (March 15).

DR. GALE E. RIDGE talked about bedbugs at Lincoln Middle School in Meriden, sponsored by the Meriden Department of Health and Human Services (100 attendees) (March 14); participated as an ad-hoc member sitting on the EPA FIFRA Scientific Advisory Panel as the expert entomologist, in Washington, DC (March 19-21); spoke about bedbugs to health department officials, sanitarians, and representatives from the military at Southern Connecticut State University in New Haven. The talk was sponsored by the SCSU Department of Public Health (50 attendees) (March 27).

The EPA FIFRA Scientific Advisory panel is a international group of scientific experts brought together to advise the EPA in regard to writing a white paper on the types of product performance data that might be needed for the EPA to evaluate the efficacy of pesticide products used to control three categories of invertebrate pests: those identified to be of significant public health importance (e.g., ticks, mosquitoes, cockroaches), wood-destroying insects (e.g., termites), and invasive invertebrate species (e.g., Asian longhorned beetle). Dr. Ridge was charged to revise pre-existing EPA arthropod tables and appendices, and to harmonize this information with the European Union and Canada.



Dr. Gale Ridge worked with Dr. Peter Hans Smits from the Netherlands (pictured).

DR. CLAIRE E. RUTLEDGE gave an interview to FOX CT about Emerald ash borer, which aired on the 4:00 PM and 5:00 PM news (March 1); gave a talk titled “The Emerald ash borer in Connecticut” at the New Hartford Land Trust Annual Meeting in New Hartford (30 adult attendees) (March 3); gave a talk titled “Wither Emerald ash borer? Biological control” at the Forest Health Workshop at Sessions Woods in Burlington (45 adult attendees) (March 5); taught the class “Insects that Attack Trees” for the Arborists’ Class held at the Bartlett Arboretum in Stamford (17 adult attendees) (March 5); gave a talk titled “Emerald ash borer in Connecticut” to the Greater Norwalk Area Master Builders Association in Wilton (30 adult attendees) (March 12); taught the “Tree Conditions Laboratory” class for the CTPA’s Arboriculture 101 in North Haven (45 adult attendees) (March 13); and attended the Annual Meeting of the Eastern Branch of the Entomological Society of America in Lancaster, PA (March 16-19). She moderated the symposium “The Thin Green Line: Updates on EAB Detection and Management on the Eastern Edge of the Infestation”; seven speakers co-organized with Melissa Fierke, SUNY ESF (35 adult attendees) (March 17); and gave a talk titled “A little wasp told me: biosurveillance and the Emerald ash borer in Connecti-



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cut” (35 adult attendees) (March 17); presented a “Wasp Watchers” table at the Master Gardeners’ Opportunity Fair in Bethel (40 adult attendees) (March 21).

DR. VICTORIA L. SMITH organized and participated in the Annual Forest Health Workshop, with a talk titled “Winter Moth- A New Survey Target,” held at Sessions Woods Wildlife Management Area in Burlington (47 participants) (March 5) and presented a talk at the Tree Health Care Seminar, sponsored by Rainbow Tree Care, titled “Pest and Disease Threats to our Forests,” held at The Inn in Middletown (30 participants) (March 12).

DR. KIRBY C. STAFFORD III spoke on tick pest management at a Tick-Borne Disease Integrated Pest Management Conference held at EPA Headquarters in Arlington, VA (88 attendees) (March 6); participated in a meeting of the Northeast Area Experiment Station Directors (NERA) and the Multistate Activities Committee in Baltimore, MD (March 11-13); was interviewed about tick bite and Lyme disease prevention by Meaghen Brown of Outside Magazine (March 14); organized and exceeded a ceremony of appreciation for former Station Director Paul Waggoner in the atrium of the Johnson-Horsfall Laboratory (March 18); with **VICKIE BOMBA-LEWANDOSKI**, staffed an Experiment Station booth on the Emerald ash borer on Ag Day at the Capitol in Hartford (March 20); presented a talk on Emerald ash borer to the Tree Wardens in Farmington (54 attendees) (March 21); and was interviewed on aspects of tick biology by Meaghen Brown of Outside Magazine (March 21).

DR. KIMBERLY A. STONER presented the workshop “Birds Do It, Bees Do It—Pollination, That Is” at the CT NOFA Winter Conference held at Wilton High School in Wilton (40 attendees) (March 2); participated in the Urban Agriculture Working Group of the New Haven Food Policy Council at City Hall in New Haven (20 attendees) (March 14); and hosted Dr. John Ascher and Eli Wyman of the American Museum of Natural History, who were collecting information from current collections and historical CAES collections of bees for research on changes in patterns of distribution of native bee species over time (March 20-21).

MS. TRACY ZARRILLO visited Dr. John Ascher at the American Museum of Natural History in New York, NY, to discuss future collaborations, and to have Dr. Ascher review her bee determinations (February 26); was visited by Dr. John Ascher and Eli Wyman from the American Museum of Natural History to review the bees in our historical collection and to review our current material from recent projects (March 21); and attended the “Identification of Northeastern Bee Species” workshop given by Dr. John Ascher, held at the University of Massachusetts in Amherst, MA (16 attendees) (March 22-24). She taught the participants how to identify the northeastern species in the genus *Ceratina*, and was also available to answer questions from participants regarding bee identification.

ENVIRONMENTAL SCIENCES

DR. THEODORE ANDREADIS lectured on the state mosquito trapping and testing program and West Nile virus to a group of 18 students and 2 teachers from East Hartford High as part of the Yale-Peabody Fellows SEPA NIH Program (March 14) and presented information on the state mosquito trapping and testing program and West Nile virus for a video presentation conducted by 7 students and one teacher from the Metropolitan Business Academy in New Haven (March 20).

MR. GREGORY BUGBEE Staffed the CAES booth at the *Escape to Spring* event at Van Wilgen’s Garden Center in Branford (March 17); with **MR. MICHAEL CAVADINI** proctored the *Forestry* event at the Middle School Science Olympiad in Farmington (approx. 40 attendees) (March 23) and with **MS. JORDAN GIBBONS** presented the results of the 2012 aquatic plant monitoring of Lakes Candlewood, Lillinonah and Zoar to stakeholders at FirstLight Power headquarters in New Milford (approx. 25 attendees) (March 27).

MS. JORDAN GIBBONS with **MS. JENNIFER FANZUTTI** gave a workshop on *Identifying Invasive Aquatic Plants in Connecticut* at the 2013 Envirothon, Goodwin College, East Hartford (80 attendees) (March 23).

MR. JOHN SHEPARD conducted a hands-on workshop for a group of 18 students and 2 teachers from East Hartford High as part of the Yale-Peabody Fellows SEPA NIH Program on mos-



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quito biology (March 14); and presented information on mosquito biology and demonstrated mosquito rearing techniques for a video presentation conducted by 7 students and one teacher from the Metropolitan Business Academy in New Haven (March 20).

MR. MICHAEL THOMAS participated in a meeting with board members of the Autumn Fields Association, DEEP, and the University of Connecticut addressing the management needs of the state endangered Dune Ghost Tiger Beetle (*Cicindela lepida*) in Enfield, CT (March 5); conducted a hands-on workshop for a group of 18 students and 2 teachers from East Hartford High as part of the Yale-Peabody Fellows SEPA NIH Program on mosquito biology (March 14); and presented information on mosquito biology and demonstrated mosquito rearing techniques for a video presentation conducted by 7 students and one teacher from the Metropolitan Business Academy in New Haven (March 20).

DR. CHARLES VOSSBRINCK met with Dr. Richard Kiyomoto at Prides Corner Nursery in Lebanon to discuss cell culture methods for propagation for figs (March 14) and met with Bill Muzychko of Bill's Figs in Flemington New Jersey to discuss the culture and propagation of fig varieties (March 22).

FORESTRY AND HORTICULTURE

MR. JOSEPH P. BARSKY assisted in staffing the CAES display at Van Wilgen's "Escape to Spring" event in Branford (5,000 attendees) (March 15-18); spoke on "A short history of the forests of Connecticut" to the Coventry Garden Club at the Booth-Dimock Memorial Library (15 attendees) (March 19); participated in a panel discussion highlighting differences between preservation and conservation for students from Eastern Connecticut State University (20 attendees) (March 27); and along with **DR. SCOTT WILLIAMS** and **MR. MICHAEL SHORT**, was interviewed by videographer Steve McGuire for an online news segment focusing on current forestry and wildlife research in Guilford (March 28) (March 28).

DR. WILLIAM NAIL participated in a meeting of the Connecticut Farm Wine Development Council at the Department of Agriculture in Hartford (March 14) and participated in a meeting of the steering committee of the New England Vegetable and Fruit Conference in Manchester, NH (March 18).

MR. MICHAEL R. SHORT attended the Forest Health Monitoring Workshop at Sessions Woods WMA in Burlington (March 5).

DR. JEFFREY WARD spoke on "Comparing effectiveness and impacts of Japanese barberry control and herbivory reduction" at the 18th annual Forest Health Workshop in Burlington (40 attendees) (March 6); spoke on "The Dynamic Connecticut Forest: An 80-Year Record" at Quinnipiac University Sigma Xi lecture (24 attendees) (March 7); was interviewed about roadside forest management by Laura Modlin of the Easton Courier Newspaper (March 7); spoke on "Impacts of Invasive Species and Deer on our Forests" to the Green Mountain Division, Society of American Foresters 2013 Winter Meeting in Fairlee, VT (54 attendees) (March 8); spoke on "The effects of climate change on Christmas trees" at the CT Christmas Tree Growers Association 53rd annual meeting in Middletown (42 attendees) (March 8); and was interviewed about forest dynamics in Connecticut by Michael Bellmore of the New Haven Register (March 8); administered practical and oral examination to arborist candidates for the Connecticut Tree Protection Examining Board (March 13).

DR. SCOTT WILLIAMS with **MR. MICHAEL SHORT** donated 300 pounds of processed venison to the Bridgeport Rescue Mission, Bridgeport, CT (March 6); presented lecture titled "Japanese Barberry Control Treatments and Herbivory Reduction on Non-Native and Native Plant Communities" at the Connecticut Conference on Natural Resources, University of Connecticut (27 attendees) (March 18); and hosted the Executive Meeting of the Connecticut Urban Forest Council at Lockwood Cottage (March 22).



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PLANT PATHOLOGY AND ECOLOGY

DR. SANDRA L. ANAGNOSTAKIS gave a talk titled “Growing nut trees” at the CT NOFA Winter Conference in Wilton (38 attendees) (March 2); reported on chestnut survival at the Forest Health Monitoring Workshop at Sessions Woods in Burlington (47 attendees) (March 5); and participated in a panel on Gifford Pinchot vs. John Muir (taking the side of Pinchot) for an Eastern Connecticut State University program at the Voluntown Peace Trust in Voluntown (16 attendees) (March 27).

DR. DONALD E. AYLOR participated as a judge for the Finalist 7th grade physics projects at the Connecticut Science Fair held at Quinnipiac University in Hamden (11 youths and 3 adults attended) (March 14).

DR. SHARON M. DOUGLAS gave a presentation to SavATree titled “Boxwood blight—A new threat to boxwood in North America” at their annual sales meeting in Southbury (180 attendees) (March 6); participated in the March meeting of the CT Tree Protection Examining Board and helped administer the oral exam to candidates for the arborist license (March 13); participated in the March meeting of the CTPA Board of Directors in New Haven (March 19); was interviewed about white pine and aerosolized sea salt and wind damage to coastal trees by Dan King of Channel 3 (March 26); and gave an invited presentation titled “Boxwood blight—A new threat to boxwood in North America” at the Maryland Invasive Insect and Disease Species Workshop in Derwood, MD (75 attendees) (March 28).

DR. WADE H. ELMER spoke about “Earthworms and soil health” to the Lunchtime Gardening Club Seminar Series at the Regional Water Authority in New Haven (8 adult attendees) (March 12); took and passed a one-day Marine Helicopter Egress Training Class in Lafayette, LA (March 14); presented a seminar titled “Sudden vegetation dieback along the Gulf and Atlantic Coasts” at the USGS National Wetlands Research Center in Lafayette, LA (32 adult attendees) (March 18); participated in a helicopter survey and sampling of dieback sites along Louisiana’s coastal marshes (March 19); and visited with plant pathologists in the Department of Plant Pathology and Crop Physiology at Louisiana State University in Baton Rouge, LA (March 20).



Dr. Wade Elmer preparing to board the helicopter to survey the marsh.



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Dr. Wade Elmer sampling in the marsh



A sudden vegetation dieback site in a Louisiana marsh.

DR. YONGHAO LI staffed the “Tree diseases” table at Hands-on Night for Arboriculture 101 in North Haven (45 attendees) (March 13); and attended the 2013 UConn Perennial Plant Conference in Storrs (March 21).

DR. ROBERT E. MARRA presented a talk on the ecology of fungi in the forest titled “Fungi: friends and foes of the forest” to the Branford Garden Club in Branford (35 adult attendees) (March 11); met with other members of the West Haven Tree Commission to choose and assess sites for street-tree plantings in CDA-zoned sections of the city (March 23); participated in a meeting of the Plant Science Day Organizing Committee at the Station (March 26).



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VALLEY LABORATORY

DR. CAROLE CHEAH gave a presentation on the threats to hemlock by elongate hemlock scale and resurgence of HWA, and an update on mile-a-minute biocontrol at the Forest Health Monitoring Workshop at DEEP Sessions Woods, Burlington (March 5) (45 people).

DR. RICHARD COWLES instructed arborists on "Emerald ash borer chemical control" at the Sav-A-Tree educational training conference, Southbury (March 6) (60 attendees); presented "SWD: A Glimmer of Hope for Advanced IPM" to a Red Tomato grower meeting, Annandale-on-Hudson, NY (March 12) (25 attendees); spoke on the subject "Phagostimulants to Improve SWD Chemical Control," at a fruit entomology symposium, Eastern Branch Entomological Society meeting, Lancaster, PA (March 17) (60 attendees); participated in a SWD insecticide needs conference call initiated by the U.S. EPA (March 28) (35 attendees); and participated in a Japanese Beetle Harmonization Agreement review conference call (March 28) (15 attendees).

DR. JAMES LAMONDIA participated in a meeting of the Connecticut Agricultural Information Council to select the Connecticut Outstanding Young Farmer Award winner and prepare for Ag Day at the Capital (February 22); taught a class on identification, biology and management of tree diseases to students in the Connecticut Tree Protective Association's Arboriculture 101 class in New Haven (March 6) (40 persons); examined candidates for the Connecticut arborist license and participated in the quarterly meeting of the Connecticut Tree Protection Examining Board in New Haven (March 13); participated in Agriculture Day at the Capital, speaking about the Century Farm Award and the 2012 Award recipients the Futtner Family Farm (March 20) (100 people); and spoke about 'Phytophthora, the plant destroyer' at the Crop Production Services Fruit and Vegetable Growers Meeting held in Windsor Locks (March 26) (80 people).

DR. DEWEI LI has joined the Editorial Board of the journal *Aerobiologia*.

DR. TODD L. MERVOSH attended the annual meeting of the Conn. Christmas Tree Growers Association in Middletown (March 9); attended a general meeting of the Connecticut Invasive Plant Working Group at Goodwin College in East Hartford (March 27); and participated in a scholarship selection committee meeting for the Connecticut Nurserymen's Foundation at the Valley Laboratory (March 27).



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JOURNAL ARTICLES APPROVED MARCH 2013

Bugbee, Gregory J., Jordan A. Gibbons, Mark June-Wells. Invasive Aquatic Plants – Lakes Candlewood, Lillinonah and Zoar. Monitoring Report 2012. Station Bulletin – Electronic Version Only

Diuk-Wasser, Maria A., J. E. Simpson, R. J. Brinkerhoff, C. F.-O’Keefe, **Philip M. Armstrong,** and **Theodore G. Andreadis.** Beyond the dilution effect: landscape, vector and primary host abundance drive West Nile virus transmission risk. Journal of Applied Ecology

June-Wells, Mark, Jordan A. Gibbons, Gregory J. Bugbee. Control of curlyleaf pondweed with diquat in Crystal Lake, CT: Efficacy of single and consecutive treatments on invasive and native macrophytes. Journal of Aquatic Plant Management

Li, Xiaoyun, **Joseph J. Pignatello,** Y. Wang, and B. Xing. New Insight Into Adsorption Mechanism of Ionizable Compounds on Carbon Nanotubes. Environmental Science and Technology

Mukherjee, Peralta-Videa, Gardea-Torresdey, **Jason C. White.** “Effects and Uptake of Nanoparticles in Plants”. Engineered Nanoparticles and the Environment...” IUPAC Book

Robb, Christina S., Brian D. Eitzer, Jordan A. Gibbons, Gregory J. Bugbee. Control of Curlyleaf Pondweed with DiQuat in Crystal Lake, CT. II Persistence and Movement of Diquat and the Effectiveness of Limnobarriers. Journal of Aquatic Plant Management

Smith, Victoria L. Winter Moth – A New Survey Target. CTPA Newsletter

Xu, Wenqing, **Joseph J. Pignatello,** W. Mitch. The Role of Black Carbon Conductivity in Mediating Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX) Degradation on Carbon Surfaces by Sulfides. Environmental Science and Technology

Williams, Scott C. and Michael R. Short. Effectiveness of Rabbit Repellents in Connecticut. Connecticut Gardener



ARTICLES OF INTEREST

GROUND-BREAKING FOR JENKINS-WAGGONER LABORATORY



(L-R) Daniel Waggoner, Dr. Paul Waggoner, Katharine Waggoner

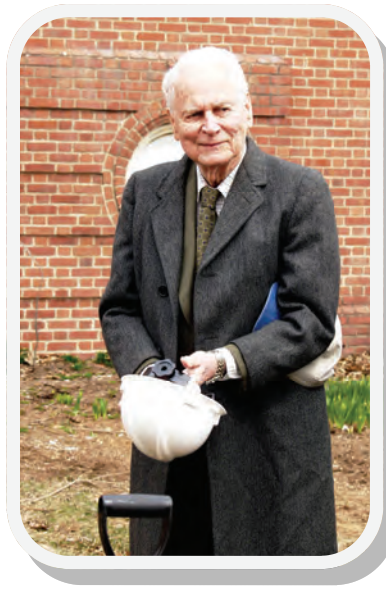


(L-R) Bud Salemi (CT Department of Construction Services), Al Secondino, Dr. John Anderson, Terry Jones, Dr. Paul Waggoner, Dr. Louis Magnarelli, Katharine Waggoner, Daniel Waggoner



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Dr. Paul E. Waggoner Appreciation Day
March 18, 2013
11:30 AM to 1:30 PM
Johnson-Horsfall Laboratory Atrium
The Connecticut Agricultural Experiment Station (CAES)
New Haven, CT 06511

Program

Welcome

Kirby C. Stafford III, Vice Director

Director's Comments

Louis A. Magnarelli, Director

Dr. Waggoner and the Experiment Station

John F. Anderson, Emeritus
Distinguished Scientist and Former Director

Board of Control

Governor Dannel P. Malloy, President
Terry Jones, Vice President
Paul C. Larson, Secretary
Steven K. Reviczky, Commissioner of Agriculture
Stephen L. Dellaporta
Joan Nichols
Dana Royer
Louis A. Magnarelli, Director

Dr. Waggoner and Land Sparing

Dr. Jesse H. Ausubel, Rockefeller University

Dr. Waggoner and Climate Change

Dr. William D. Nordhaus, Yale University

Dr. Waggoner and Industrial Ecology

Dr. Reid J. Lifset, Yale University

A Family Perspective

Daniel Waggoner, Son
Katharine Waggoner, Granddaughter

Honoree's Remarks

Dr. Paul E. Waggoner

Birthday Wishes

Dr. Paul E. Waggoner, Family, and Guests

Jenkins-Waggoner Laboratory

Donald DeFronzo, Commissioner
Pasquale J. Salemi Jr.
CT Department of Construction Services

Presentation of Plaque

Dr. Louis A. Magnarelli

Ceremonial Ground-Breaking

Jenkins-Waggoner Laboratory (Outside)

Reception

Refreshments and Hors d'oeuvres

**THE
CONNECTICUT
AGRICULTURAL
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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

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Station News was prepared and edited by Dr. Louis Magnarelli, Dr. Kirby Stafford, Ms. Tia Blevins, Mrs. Roberta Ottenbreit, and Mrs. Vickie Bomba-Lewandoski.