

Station News A PROGRESS REPORT for staff

and Friends of America's first Agricultural Experiment Station

Station News is finally back on track and will be published monthly. If you have any news that you would like published please let me know and we can put your news in our next edition.

Please submit your special photos you recently took and would like to share. We can have a featured photo/image of the month.

Photo of the Month...



On December 4th Deputy Commissioner of the Connecticut Department of Environmental Protection toured the new Johnson-Horsfall building shown here with Dr. Mary Jane Incovia Mattina.

I would just like to remind you to take a look at our website <http://www.caes.state.ct.us> and our intranet site <http://eww.insidecaes.state.ct.us/> for new Station information.

I have many useful links and information on our station intranet site. So, be sure take a look. I will be archiving station news on our intranet site at <http://eww.insidecaes.state.ct.us/StationNews/StationNews.htm>, so if you need information from back issues you can easily access it. I also keep an up to date listing of the station staff listing, telephone number directory, and e-mail addresses on our internet <http://www.caes.state.ct.us/telephonestafflistings/telestaff.htm> and intranet site <http://eww.insidecaes.state.ct.us/telephonestafflistings/telestaff.htm>. I also have a library link with useful links and information on our intranet site <http://eww.insidecaes.state.ct.us/LibraryInformation/Library.htm>. Another item of interest is the link to our station's event page <http://eww.insidecaes.state.ct.us/StationEvents/events.htm>. You can click on the link entitled Events page <http://www.caes.state.ct.us/Events/events.htm> to view a monthly

listing of events taking place at our New Haven, Hamden, and Windsor locations
<http://www.caes.state.ct.us/Events/FacilityUsage.htm>.

Departmental News

Administration

DR JOHN F. ANDERSON hosted Deputy Commissioner of Environmental Protection David Leff during his visit to the Station (December 4); participated in a teleconference meeting of the Lyme Disease Foundation (December 5); attended Gardeners of New Haven annual Christmas luncheon (December 7) in Hamden; hosted Deputy Commissioner of Public Works David O'Hearn during his visit to the Station (December 9); participated in the Invasive Plants Council meetings in Hartford (December 11 and December 23); hosted three members of the David Schneider family of Woodbridge during their visit to the Station (December 30).

Analytical Chemistry

Biochemistry and Genetics

Entomology

Forestry and Horticulture

KIRBY STAFFORD visited by Chuck Cole, Bayer Environmental Science, and Frank Meek, Technical Manager, and John Wilson, Division Vice-President, Orkin Pest Control, to discuss the tick control industry (Dec 12).

JEFFREY WARD spoke on "Forest management and prescribed burning" at Notre Dame High School in West Haven (Dec. 3); participated in the December meeting of the Executive Committee of the New England Society of American Foresters in Concord, New Hampshire (Dec. 10); attended December meeting of Connecticut Tree Protective Association in Southington, CT (Dec. 11); administered practical and oral examination to arborist candidates for the Connecticut Tree Protection Examining Board (Dec. 17); was interviewed by Mike Swift of the Hartford Courant about changes in Connecticut's Forest (Dec. 31).

MARTIN GENT visited Ms. Judy Nacca's 3rd grade class at Vincent Mauro School and discussed questions about plants for a Science Fair project (Dec. 12); attended the New England Vegetable and Berry Growers Conference in Manchester NH. Served as Program Chair for the meeting. Moderated sessions on 'Blueberries' and 'Wildlife Management'. Gave a talk on 'Shade to improve quality of greenhouse tomatoes' (Dec. 16-18); visited Chas Mavrelion of the Sound School to discuss a cooperative project to produce salad greens in hydroponics (Dec. 23).

UMA RAMAKRISHNAN gave a talk on "Deer Habitat and Behavior: Reducing Browse Damage to Vegetables" at the New England Vegetable and Berry Conference in Manchester, NH (Dec. 18).

J.P. BARSKY organized and attended the Executive Committee Meeting of the Connecticut Chapter of Society of American Foresters (Dec. 12); Elected to two-year term as Chair, Yankee Division of the Society of American Foresters. The Yankee Division encompasses the States of Connecticut, Massachusetts, and Rhode Island (Dec. 16).

Lockwood Farm

Plant Pathology and Ecology

DR. SANDRA L. ANAGNOSTAKIS was interviewed about chestnuts by Steve Grant of the Hartford Courant (Dec. 1).

DR. DONALD E. AYLOR was visited by Toby Schneider, a botany student from Williams College, and discussed plant disease epidemiology and pollination of maize (Dec. 30).

DR. SHARON M. DOUGLAS discussed tree diseases and answered tree health questions at the scenario/review session of the Connecticut Tree Protective Association's Arboriculture 101 course (Dec. 10); assisted the Connecticut Tree Protection Examining Board with oral examinations of potential candidates (Dec. 17).

DR. WADE H. ELMER attended the New England Vegetable and Small Fruit Meetings in Manchester, NH (Dec. 18).

Soil and Water

THEODORE ANDREADIS presented a talk entitled "Mosquito Arbovirus Activity in Connecticut, 2003" at the annual meeting of the Northeastern Mosquito Control Association, Hyannis, MA (Dec. 1); presented an overview of the State Mosquito Trapping and Testing Program for West Nile and Eastern Equine Encephalitis Viruses in CT to David Leff, Deputy Commissioner, CT DEP (Dec. 4).

JASON WHITE has been elected to Editorial Board of *Environmental Toxicology and Chemistry* (Dec. 1); has been appointed Adjunct Associate Professor of Environmental Engineering with the Department of Civil and Environmental Engineering at the University of Connecticut (Dec 1).

Valley Laboratory

DR. RICHARD COWLES presented "Black vine weevil management in strawberries," "Spider mite management in strawberries," and "White grub management in blueberries," to the New England Vegetable and Berry Growers Association biennial meeting in Manchester, NH, (Dec. 16-17); interviewed by David Shapley of the Poughkeepsie Journal on the subject of hemlock woolly adelgids (Dec. 5).

DR. JAMES A. LAMONDIA served as a reviewer on a Regional IPM Grant panel (Dec. 10-11); and examined candidates for the Connecticut arborist license and participated in the quarterly meeting of the Connecticut Tree Protection Examining Board in New Haven (Dec. 17).

DR. TODD L. MERVOSH presented a guest lecture on "Weed management for nursery plants" for a weed science class at the University of Massachusetts in Amherst (Dec. 4); and spoke about "Herbicides and rye mulch for vegetable production" at the New England Vegetable and Berry Conference in Manchester, NH (Dec. 16).

THOMAS RATHIER participated in a review session for Arboriculture 101, an educational course presented by the Connecticut Tree Protective Association in Jones Auditorium (Dec. 10); and gave a talk on ground water topics to an environmental science class at Suffield High School (Dec. 16).

ROSE HISKES participated in the CIPWG symposium planning committee in Windsor (Dec. 8); and taught a class on pest control in ornamentals and turf at Naugatuck Valley Community College in Waterbury (Dec. 3, 10, and 17).

DR. CAROLE CHEAH gave a talk on biological control of hemlock woolly adelgid for the Northeastern Organic Farmers Association (NOFA) Organic Land Care Program at the at the Tolland Agricultural Center, Vernon, CT (Dec. 3).

Journal Articles Approved **July 1st - December 31st 2003**

Ahrens, J. F. and T. L. Mervosh. Flumioxazin sprays for field-grown ornamentals in 2003. Northeastern Weed Science Society, 2004 Proceedings.

Anagnostakis, S. L. and D. Stilwell. Growth of hybrid chestnut trees in forest clear-cuts and in an old field. Forest Ecology and Management.

Anderson, J. F., L. A. Magnarelli. Babesiosis in Fairfield County, Connecticut. Emerging Infectious Diseases.

Aylor, D. E., N. P. Schultes, and E. J. Shields. An aerobiological framework for assessing cross-pollination in maize. Agricultural and Forest Meteorology.

Aylor, D. E. Survival of maize (*Zea mays*) pollen exposed in the atmosphere. Agricultural and Forest Meteorology.

Cavaliere, J. and S. Anagnostakis. Chestnut weevils and the Connecticut Drought of 2002. Annual Report, Northern Nut Growers Association.

Cheah, C.. Hemlock Woolly Adelgid in CT 2003. HWA Newsletter 2003.

Cheah, C.. Hemlock Woolly Adelgid. Annual Gypsy Moth Review: Exotica.

Cheah, C. *Pseudoscymnus tsugae*. FHTET Publication: "Biological Control of Hemlock Woolly Adelgid in the Eastern United States.

Cheah, C. and C. Donahue. Alternate Adelgid Prey for *Pseudoscymnus tsugae* Establishment (Abstract). Northeast Forest Pest Council 2003.

Cheah, C. and C. Donahue. Potential biological control of Balsam Woolly Adelgid (Abstract). Proceedings of 62nd Annual Meeting of the Acadian Entomological Society.

Cowles, R. S. Susceptibility of strawberry varieties to the black vine weevil (Coleoptera: Curculionidae). Agricultural and Forest Entomology.

Cowles, R. S. Impact of azadirachtin on black vine weevil (Coleoptera:Curculionidae) reproduction. Agricultural and Forest Entomology.

Cowles, R. S. Some highlights from the Sixth International Christmas Tree Research and Extension Conference. American Christmas Tree Journal.

Cowles, R. S. Spider mite management in strawberries. Proceedings of the New England Vegetable and Berry Growers.

Cowles, R. S. Black vine weevil management in strawberries. Proceedings of the New England Vegetable and Berry Growers.

Cowles, R. S. White grub management in blueberries. Proceedings of the New England Vegetable and Berry Growers.

Dingman, D. W. Characterization of *Paenibacillus popilliae* rRNA operons. Canadian Journal of Microbiology.

Douglas, S. M. and M. K. Inman. Seed germination and purity analysis 2003. Station Bulletin.

Elmer, W. H. Chloride and plant disease. Book Chapter in : Mineral Nutrition and Plant Disease, APS Press, St. Paul, MN.

Elmer, W. H. Efficacy of using nonpathogenic isolates of *Fusarium oxysporum* and sodium chloride to re-establish asparagus in replanted fields. Phytopathology (Abstract).

Elmer, W. H., and R. J. McGovern. Efficacy of integrating biologicals with fungicides for the suppression of Fusarium wilt of cyclamen. Crop Protection.

Elmer, W. H. and R. J. McGovern. Epidemiology and control of Fusarium wilt of cyclamen. Special Research Report, American Floral Endowment.

Elmer, W. H. Can NaCl be used in agriculture to control plant diseases? American Salt Institute Website.

Elmer, W. H. Effect of fungicides and combinations of biologicals and acibenzolar-S-methyl on Fusarium rot of gladiolus, 2003. Biological and Cultural Tests.

Elmer, W. H. Influence of nonpathogenic strains of *Fusarium oxysporum* and sodium chloride in Fusarium crown and root rot of asparagus in replanted fields. Plant Pathology.

Gent, M.P.N., X. Wang, and J. C. White. Phosphorus depletion affects organic acid exudation among cucurbita species differing in uptake of contaminants in soil. Agronomy Society Abstracts 2004. American Society of Agronomy Meeting, November 2003.

Gent, M. P. N.. Effect of shade on quality of greenhouse tomato. Hortscience (Abstract). Amer. Soc. of Hort. Sci. NE Region Meeting, January 2004.

Gent, M. P. N. Effect of shade on quality of greenhouse tomato. Proceedings. NEV&B Conference, December 2003.

Gent, M. P. N. Effect of season and fertilization on amino acid composition of leafy greens grown in high tunnels. Hortscience (Abstract).

Gent, M. P. N. Greenhouse tomato cultivar trials in Connecticut 1999-2002. Station Bulletin.

Hill, D. Broccoli trials 2000-2002. Station Bulletin.

LaMondia, J. A. Evaluation of Avid and Pylor for control of foliar nematodes on Anemone, Phlox, and Salvia, 2002. Fungicide and Nematicide Tests.

Lu, Y. and J. J. Pignatello. Sorption of apolar aromatic compounds to soil humic acid particles affected by polyvalent metal ion crosslinking. J. Environmental Quality.

Maier, C. The man that we honor (Mark McClure). Hemlock Woolly Adelgid Newsletter.

McHale, N. A. Regulation of PHAVOLUTA by microRNA controls development of the vascular cambium and the polarity of organ primordia in Nicotiana. Science.

Mervosh, T. L. and J. F. Ahrens. Flumioxazin in field and container plantings of woody ornamentals. Weed Science Society of America, 2004. Abstracts.

Mervosh, T. L. Herbicides and rye mulch for vegetable production. New England Vegetable and Berry Growers Conference Proceedings (2003).

Mervosh, T. L. Evaluations of clomazone, ethalfluralin and halosulfuron in pumpkins. Northeastern Weed Science Society, 2004 Proceedings.

Mervosh, T. L. and J. F. Ahrens. Flumioxazin efficacy and safety to deciduous shrubs and ornamental grasses in containers. Northeastern Weed Science Society, 2004 Proceedings.

McGovern, R. J., W. H. Elmer, D. C. Geiser, and B. K. Harbaugh. Biology, epidemiology, and integrated management of *Fusarium* tuber rot of caladium. Special Research Report, American Floral Endowment.

McGovern, R. J., B. K. Harbaugh, W. H. Elmer, and D. C. Geiser. Biology, epidemiology, and integrated management of *Fusarium* crown and stem rot of lisianthus. Special Research Report, American Floral Endowment.

Narasimhan, S, R. R. Montgomery, K. Deponte, C. Tschudi, N. Marcantonio, J. F. Anderson, J. R. Sauer, M. Cappello, F. S. Kantor, and E. Fikrig. Distribution of *Ixodes scapularis* anticoagulation using RNA interference. Proceedings of the National Academy of Sciences.

Pal, U., X. Yang, M. Chen, L. Bockenstedt, J. F. Anderson, R. A. Flavell, M. V. Norgard, and E. Fikrig. OspC facilitates *B. burgdorferi* invasion of *I. Scapularis* salivary glands. Journal of Clinical Investigation.

Peterson, Richard B. and E. A. Havir. The multi phasic nature of nonphotochemical quenching: Implications for assessment of photosynthetic electron transport based on chlorophyll fluorescence. Photosynthesis Research.

Pignatello, J. J. Fenton advanced oxidation processes. Book: Advanced Oxidation Technologies for Water and Air Purification. J. Wiley & Sons.

Rathier, T. Cultural and pest management update. The Real Tree Line (Newsletter, for CCTGA, November 2003).

Stilwell, D. E., C. L. Musante. Effect of coatings on CCA leaching from wood in a soil environment. Proceedings of the Environmental Impacts of Preservative Treated Wood Conference.

Stoner, K. Plant breeders and organic farmers working together: The Public Seed Initiative. Gleanings (CT NOFA Newsletter).

Vossbrinck, C. T. G. Andreadis, and L. M. Weiss. Phylogenetics: Taxonomy and the microsporidia as derived fungi. World Class Parasites, Vol. 8, Opportunistic Infections: Toxoplasma, Sarcocystis, and Microsporidia.

Wang, X, J. C. White, M. P. N. Gent, W. Iannucci-Berger, B. D. Eitzer, M. Incorvia Mattina. Phytoextraction of weathered DDE by zucchini and cucumber under different cultivation conditions. Environmental Science & Technology.

Ward, J. S., C. Cheah, M. I. Montgomery, and R. S. Cowles. Rehabilitation guidelines for hemlock stands damaged by the hemlock woolly adelgid. USDA Forest Service S&P Technical Bulletin.

White, J. C. and B. A. Zeeb. Plant phylogeny and the remediation of POPs. Book Chapter = Book Title "Phytoremediation: Methods and Reviews".

Zhu, D, H. Seunghun, J. J. Pignatello, and L. S. Lee. Evidence for π π Electron Donor-Acceptor Interactions between π -Donor Aromatic compounds and π acceptor sites in soil organic matter through pH effects on sorption. Environmental Science and Technology.

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