



Cornell University
Cooperative Extension

Hudson Valley Horticulture

Cornell University Cooperative Extension of the Hudson Valley

~~~Commercial Horticulture Electronic Newsletter~~~

Volume 16, Issue 6

June 2016

Participating Counties: Orange \* Dutchess \* Putnam \* Rockland \* Ulster \* Westchester

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- **Bedbug Update for the Industry**
- **New Advances for Biological Controls For Indoor and Outdoor Production of Ornamentals**
- **The New Blue: Updated NYSDEC Erosion and Sediment Manual, CCE Orange**
- **2016 Christmas Tree Twilight Meeting**
- **Streams 101 CCE Rockland County, Hudson Estuary Watershed Resiliency Project Seminar**
- **2016 ReLeaf Conference**
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## **May-August Programs**

### **Webinar: Emerging Approaches to Tree Inventory Analysis**

**When:** Thursday, June 9th, 12-1 pm EDT

**Where:** Webinar

**Program:** Presenters: David V. Bloniarz, Ph.D., US Forest Service & Gabriel Markarian, University of Massachusetts

Gathering and applying the right analysis tool is essential to commencing our understanding of the benefits of our local urban forests. Join Dr. Dave Bloniarz as he provides an update about the iTree tools suite, including the new iTree Landscape, and Gabe Markarian as he outlines some of his recently-published tree inventory analysis research from the University of Massachusetts.

This broadcast is free and will offer the opportunity for arborists to earn 1.0 ISA CEU and 0.5 MCA credit.

**Register:** Free. To attend, visit [www.joinwebinar.com](http://www.joinwebinar.com) and enter the ID code **114-760-931**

### **Bedbug Update for the Industry**

**When:** 6/15/16 from 8:00 AM to 9:00 AM

**Where:** Cornell Cooperative Extension headquarters, 3 West Main Street, Suite 112, Elmsford, New York 10523.

**Program:** Presenter: NYS IPM Entomologist Dr. Matthew Frye, Extension Educator from the New York State IPM Program at Cornell University. Dr. Frye specializes in pests that infest structures and he will speak about bed bug biology, identification and the very latest best management practices for this pest. New Research from Rutgers University about addressing bed bugs at the whole building level in multi-resident housing/facility situations will be covered.

Research is revealing more about bed bug behavior every day so come join us for this informative session. Remember that enrollment in Cornell Cooperative programs is always confidential and that our goal is to educate those we serve with unbiased, research-based information.

**Register:** Pre-registration required by 6/13/16. Pre-register by phone and pay at the door with cash or check by calling Martha Mocbeichel at 914-285-4640. For program questions, email Jerry at [ggg3@cornell.edu](mailto:ggg3@cornell.edu) or call Jerry at 914-285-4618.

### **New Advances for Biological Controls for Indoor and Outdoor Production of Ornamentals**

**When:** June 21<sup>st</sup> 2016

**Where:** University of Connecticut, Storrs, CT

**Program:**

Bio-control Developments on a Global Level, Ron Valentin, Bioline Agrosiences Inc., Oxnard, California

New Developments You Can Use from Biocontrol Research, John Sanderson, Cornell University, Ithaca, NY

Good Garden Bugs: Identifying Native Predators and Parasitoids Common in Outdoor Ornamental Production Mary Gardiner, Ohio State University, Wooster, OH

Encouraging beneficials to enhance biological control in outdoor production, Paula Shrewsbury, University of Maryland, College Park, MD

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Plus grower to Grower discussion!

**Registration:** Check only, Deadline June 14<sup>th</sup>, Form here:

<http://ipm.uconn.edu/documents/raw2/952/2016BCAprogramfinal.pdf>

## **The New Blue: Updated NYSDEC Erosion and Sediment Manual, CCE Orange**

**When:** June 23, 2016

**Where:** Cornell Cooperative Extension Orange County, 18 Seward Ave, Middletown NY

**Program:** After more than three years of development, the newest version of NYS's technical standards for Erosion and Sedimentation Control is/(will soon be) in effect. This edition, authored by the legendary expert, Don Lake, incorporates many new techniques and technology for managing runoff, stabilizing soil, and containing sediment. This class will provide an overview of the newly organized manual, and then use the outlined practices and techniques to compute soil losses, design practices and prepare erosion and sedimentation control plans, construction sequences, and maintenance requirements for specific construction sites.

**Registration:** <https://interland3.donorperfect.net/weblink/weblink.aspx?name=E190538&id=37>

## **2016 Christmas Tree Twilight Meeting *Save the Date***

**When:** Thursday June 30<sup>th</sup>

**Where:** Evergreen Farm, Millbrook NY

**Program/Presenters** Brian Eshenaur & Betsy Lamb, Cornell University IPM Program, Paul Shelar (formerly of Penn State). Program details top follow

## **Streams 101 CCE Rockland County, Hudson Estuary Watershed Resiliency Project Seminar**

**When:** June 30<sup>th</sup>

**Where:** TBD

**Program: Presenters:** Ron Frisbee and Audrey Kropp, Columbia/Greene County  
Carolyn Klocker, and Camille Marco, Dutchess County

Learn how streams work and ways to minimize flood risk for your community. This seminar will include:

- An overview on stream dynamics— how streams naturally flow on the land.
- A primer on how streams respond to disturbance from floods or human-built infrastructure.
- An opportunity to ask questions about stream problems

**Registration:** This event is free and open to the public. to Register: Jennifer Strianese 845-429-7085 X117 or email at [jas946@cornell.edu](mailto:jas946@cornell.edu)

Certificates of attendance for 2 Municipal training credits. (based on 2 hour program). Please check this site for more information <http://rocklandcce.org/stormwater-consortium>

## **Annual ReLeaf Conference**

**When:** July 14-16

**Where:** Skidmore College, Saratoga Springs NY

**Program:** The keynote speaker will be **Dr. Neil Murphy**, Senior Fellow for Environmental and Sustainable Systems at SUNY College of Environmental Science and Forestry (SUNY ESF) and former President of SUNY ESF. There's a great [article](#) about Dr. Murphy, who served for 13 years as President, in Inside ESF magazine. Last summer Dr. Murphy spoke in a highly

engaging way to ReLeaf conferees about the construction and vision of the LEED Platinum Certified Gateway Center at SUNY ESF.

Plus much more (find the conference brochure [here](#))  
Credits for Planning Zoning Boards, ISA, CNLP, SAF and DEC available

**Register:** <http://nysufc.org/wp-content/uploads/2016/05/Saratoga-conference-preliminary-brochure-1.pdf>

## **UConn Turfgrass Field Day**

**When:** Tuesday, July 19<sup>th</sup>, 2016

**Where:** Plant Science Research and Education Facility, Storrs CT

**Program:** The UConn Turfgrass Science Program invites you to attend the Fifth Biennial Turfgrass Field Day. The focus of the event will be guided tours of current research studies in the areas of turfgrass management, pathology, entomology, and more. Enjoy a delicious lunch and reconnect with old friends during the event. Our afternoon program will include three breakout sessions highlighting handling and field application of beneficial nematodes, sustainable and pesticide-free turf management and a turfgrass disease walking tour focused on identification and cultural and chemical control options. Exhibitors from throughout the region will also be present with product and service information for the turfgrass industry.

**Registration:** General and exhibitors registration:

<https://www.regonline.com/builder/site/Default.aspx?EventID=1800966>

## **Save the Date! 2016 IPM In-depth Hands-on Greenhouse Workshop**

**When:** July 28<sup>th</sup>, 2016

**Where:** Cornell University, Ithaca, NY

**Program:** Save the Date, More Details to come

**Registration:** Watch this site: [http://www.greenhouse.cornell.edu/calendar/ipm\\_workshop.htm](http://www.greenhouse.cornell.edu/calendar/ipm_workshop.htm)

## **The Impact of Whitetail Deer**

**When:** Tuesday August 2<sup>nd</sup>, 6:30 pm

**Where:** Candlelight Inn, Scarsdale, NY (Registration includes BBQ dinner)

**Program:**

Chris Markham, NJ Deer Control, will be talking on the historical & biological look at the tumultuous relationship between rural & suburban homeowners with the White-Tailed deer in the mid-Atlantic region, as well as the negative impacts on our properties and natural ecosystems created by it's overabundance. He will discuss small-scale deterrents (plants, fencing, sound, repellants) as well as the commonly used plants deer love.

Joe Havranek NYS DOT Inspector will be providing an update on the latest NYS DOT rules and regulations AS WELL AS doing a mock inspection. Get the information you need so you are confident you're compliant during an inspection.

NYS DEC CEUs 1 credit in category 25 and 3a

**Register:** Registration required (914)993-9455 [admin@nystla.com](mailto:admin@nystla.com)  
[www.nystla.com](http://www.nystla.com)

## Save the Date! 2016 Cornell Floriculture Field Day

When: August 9<sup>th</sup>, 2016

Where: Cornell University and Bluegrass Lane, Ithaca NY

Program: Save the Date: More Details to Come

Registration: Keep an eye on this site:

[http://www.greenhouse.cornell.edu/calendar/floriculture\\_field\\_day.htm](http://www.greenhouse.cornell.edu/calendar/floriculture_field_day.htm)

## Articles

### Forest Pests costing us Billions: Property Owners and Local Governments are Footing the Bill

Link here to a [Newsweek article](#) on forest pests, along with a video with Cary Institute of Ecosystem Studies forest ecologist, Gary Lovett who is calling for a look at [tree-SMART international trade](#). Gary Lists 5 steps to move toward international trade practices that reduce the opportunity to import new pests. Visit tree-SMART Trade here to read more: <http://www.caryinstitute.org/science-program/research-projects/tree-smart-trade>

Adapted from an email by Sharon Bachman, [Cornell Cooperative Extension of Erie County](#)

### The message matters: Pollinator Friendly or Bee Friendly

A recent article in [Greenhouse Grower](#) magazine reviews some research on consumer preferences. It seems that people like pollinator friendly better than bee-friendly. No surprise you say?

Excerpt: When it comes to which terms most influence garden customers, more general terms like “pollinator friendly” have a bigger impact on which plants they buy, a recent study by University of Florida Institute of Food and Agricultural Sciences researchers says.

The researchers, postdoctoral research associate Alicia Rihn and assistant professor Hayk Khachatryan, wanted to know how labels such as “pollinator friendly” would influence consumer attitudes.

“We wondered, which pollinator insect-related labels are the most effective, and which do consumers prefer?” Khachatryan says. “At the time of our study, these topics had not been addressed.”

Read Complete Article Here: <http://www.greenhousegrower.com/retailing/which-pollinator-terms-appeal-most-to-consumers/>

Research here in HortScience: <http://hortsci.ashspublications.org/content/51/4/388.abstract>

Submitted by Jen Stengle, Resource Educator, [Cornell Cooperative Extension of Putnam County](#)

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## Regional Updates:

**Report from Putnam:** What’s up with the Pachysandra? What’s up with the White Pine?

***Pachysandra terminalis*** can sometimes look awful coming out of the winter. Yellowed and blotchy leaves, bare stems, brown cankered lesions, oh my! This year our lab has seen more than its usual share of blighted pachysandra. Both landscape professionals and homeowners have been bringing samples in by the armload. While we are always on the lookout for boxwood blight

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on pachysandra, this has been more of the usual suspects: [Volutella blight](#), [alfalfa mosaic virus](#), spider mites, and [euonymus scale](#). It's not uncommon for these insects and pathogens to take their toll on pachysandra growing in poor locations, like full sun and poor soils. However, this spring was different and samples came from well-established pachysandra beds in ideal locations. So what's going on?

We are only guessing, but lack of snow cover, extended growing season, extreme, though brief, cold temperatures, and late freezes may have stressed these plants. Fall droughts may have further exacerbated the problem in some locations. Samples sent up to the disease diagnostic clinic did not show anything new or unusual.

Some folks are mowing what's left, carefully raking all fallen debris, fertilizing and mulching to spur new growth. (If scale is present, don't fertilize as this in turn "feeds" the insect) Others are cutting back the worst affected portions and doing a good job of raking up the diseased fallen leaf material. Additional irrigation may be in order, especially during prolonged drought and heat. It is not clear if anti-desiccant sprays help, but customers may want this service anyhow, especially after all the time put into resurrecting the pachysandra bed. Fungicides are an option.

Our native [Allegheny pachysandra](#) *Pachysandra procumbens*, is a blight-resistant option, and quite beautiful. Though only semi-evergreen, it still has the spreading habit of its Asian cousin. Foliage is often beautifully mottled and [patterned](#) (almost variegated but not quite). Still requires a shady spot, high in organic matter, like *Pachysandra terminalis*.

**Eastern White Pine**, *Pinus strobus*, is a familiar landscape tree (five soft needles per bundle or fascicle). However, as I have been driving around Putnam and Dutchess, I have been noticing a lot of yellowing and needle drop. While some winter damage is common, especially in trees near roadsides or in bad locations, this yellowing is occurring on well-established trees in good landscape settings. What's going on out there?

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We sent a sample up the [Disease Diagnostic Clinic](#) at Cornell and will await answers, but a fellow diagnostician pointed me to [this fact sheet](#), which discusses two possible culprits: Canavirgella needlecast and Mycosphaerella needle blight (aka Brown Spot needle blight). Both can cause needle drop and it's common for pines effected by these diseases to drop last year's infected needles as this year's new needles (candles) emerge. Environmental conditions like drought and late frosts, as well as other stressors can heighten the pathogen's impact. There are controls listed for Mycosphaerella needle blight that include good sanitation, ample spacing between trees, and fungicides. There are currently no controls listed for Canavirgella needle cast.

Curious to know if you all have been seeing more than the usual share of needle drop on white pines in your neck of the woods?





Written by Jen Stengle, Resource Educator, [Cornell Cooperative Extension of Putnam County](#)

## **About Pesticide Certification**

If you apply pesticides, including weed-killers, weed and feed products, insecticides, fungicides, or tick control products to customer's properties for hire, you or someone in your company must be a New York State Certified Pesticide Applicator through the New York State Department of Environmental Conservation and have their business registered.

There are three levels of commercial certification: applicator, technician, and apprentice:

### **For Commercial Applicators**

To be eligible to take the exams to become certified, you must meet one of the following requirements:

3 out of the past 5 years of verifiable experience as an apprentice working in the category applicant is seeking certification in; or 3 out of the past 5 years as a certified private applicator in a corresponding private category; or Certification in another State with which New York has reciprocity; or if seeking certification in the Sales Category - At least 3 years experience in the sale of pesticides, or can demonstrate, through applicable training certifications or education degrees, that one possesses appropriate technical background.

**Certified Pesticide Technician:** be at least 17 years of age. 2 years of verifiable experience as an apprentice; or Completion of a 30-hr. training course, approved by the NYS DEC or a baccalaureate or associate degree from an accredited college or university in the area seeking certification. These are offered at the following: **30 Hour Courses:** Pest Management Training Center (B. H. Stangel, Inc.): (845) 357-7734, [barrypmtc@optonline.net](mailto:barrypmtc@optonline.net), or visit [www.pestmanagementtraining.com/s/](http://www.pestmanagementtraining.com/s/). Advanced Technical Consultants (ATC): Kevin Hurley, 845-687-6483, or visit [www.pested.com](http://www.pested.com) (on line courses). For a more detailed list of current 30 hour certification courses, search the Bureau of Pest Management - Information Portal at <http://www.dec.ny.gov/nyspad>.

Technicians, once certified, desiring full applicator status the following documentation is required: a letter indicating 2 yrs. of experience or 1 yr. of experience plus 12 recertification credits.

Experience and recertification credits must be category or sub-category specific.

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**Pesticide Apprentice:** Must be at least 16 years of age; Must receive 40 hours of pesticide use experience under supervision of a certified applicator and a minimum of 8 hours of instruction on topics outlined in Section 325.18 of Part 325 Rules & Regulations relating to the application of pesticides, before being able to apply general use pesticides under the off-site direct supervision of a certified applicator. Documentation of the above must be maintained by the certified applicator, and include: name & address of apprentice; date(s) of instruction or observation; content of training and certification category; instructor's name and certification identification number; and an evaluation of the competency of the apprentice.

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### **For Private Applicators**

Must be at least 17 years old. Have at least one year of full-time experience within the last three years in the use of pesticides in the category in which certification is requested --OR Has completed a 30-hr. training course, or has received an associate's or higher level college degree in the area of which certification is requested.

For further information on eligibility rules and regulations, and fees, contact the NYS DEC Region 3 Pesticide Staff at (845) 256-3097. Eligible candidates for certification must and pass two examinations, administered by the NYSDEC. Once you determine you are eligible for certification, contact -your county's NYS DEC office for information on registering for the exams. NYS DEC Region 3 can be reached by calling (845) 256-3097.

### **Cornell University Cooperative Extension County Commercial Horticulture Educators**

*Dutchess:* Stephanie Radin, [sradin@cornell.edu](mailto:sradin@cornell.edu), 845-677-8223 x 104

*Orange:* Rosemarie Baglia, [rsb22@cornell.edu](mailto:rsb22@cornell.edu), 845-344-1234

*Putnam:* Jennifer Stengle, [jjs95@cornell.edu](mailto:jjs95@cornell.edu), 845-278-6738

*Rockland:* Anne Christian, [alc44@cornell.edu](mailto:alc44@cornell.edu), 845-429-7085

*Ulster:* Teresa Rusinek, [tr28@cornell.edu](mailto:tr28@cornell.edu), 845-340-3990

*Westchester:* Gerald Giordano, [ggg3@cornell.edu](mailto:ggg3@cornell.edu), 914-946-3005

### **News and Educational Resources:**

#### **Free Newsletters**

Greenhouse IPM update: Elizabeth M. Lamb [eml38@cornell.edu](mailto:eml38@cornell.edu)

Christmas Tree IPM update: Elizabeth M. Lamb [eml38@cornell.edu](mailto:eml38@cornell.edu)

Taking Root Blog/Newsletter <https://nysufctakingroot.wordpress.com/>

#### **Subscription Newsletters:**

Cornell Turf Program: <http://www.hort.cornell.edu/turf/>

Subscribe to Turf Short Cutt, RSS Feed, Blog: <http://www.hort.cornell.edu/turf/pdfs/shortcuttorder.pdf>

Branching Out: <http://branchingout.cornell.edu/>

Newsletter Subscription: <http://branchingout.cornell.edu/Subscriptions.html>

Eastern New York Commercial Horticulture Program (Fruits, vegetables, greenhouse):

<http://enych.cce.cornell.edu/>

Enrolled Newsletter Subscription: email [mmp74@cornell.edu](mailto:mmp74@cornell.edu)

#### **Free Weekly Updates:**

- USDA Crop/Weather/Livestock updates: chose your crop, Ag industry or just the weather and email updates will be sent weekly:  
[http://www.nass.usda.gov/Statistics\\_by\\_State/New\\_York/Subscribe\\_to\\_NY\\_Reports/](http://www.nass.usda.gov/Statistics_by_State/New_York/Subscribe_to_NY_Reports/)
- Forecast: weekly updates for Turf Industry <http://www.nrcc.cornell.edu/grass/>

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