

Horticulture Industry Integrated Pest Management Symposium

7th Annual Symposium for Professionals in the Horticulture and Landscape Industry
at The North Carolina Arboretum, Asheville, N.C.,
in conjunction with the North Carolina Cooperative Extension Service

Thursday, September 28, 2017
9:00 a.m. to 4:00 p.m.

Registration Fees

Early bird discount through September 7, \$70 Member/\$75 Non-member
After September 7, \$80 Member/\$85 Non-member
Lunch and snacks are included in the registration fee.

Pesticide credits available N.C.: Categories D : 5, L : 5, N : 5, O : 5, X : 5
N.C.: Landscape contractor: 4.75 credits
S.C.: Pesticide: 4 credits
Georgia: 5 credits
Tennessee: Pending, in process
ALPD: CEU's pending

AGENDA in brief

Plenary Session

- 9:00 - 9:15 a.m. Welcome and Announcements
9:15 -10:15 a.m. Keynote Speaker **JC Chong**, *Forward to the Next Chapter in Greenhouse, Nursery and Landscape IPM*
10:15 -10:30 a.m. [Break and Opportunity to View Beneficial Insects](#)

Breakout Sessions

Participants may rotate between the sessions.

Landscape and Nursery Track - Auditorium

- 10:30 -11:15 a.m. **Stanton Gill**, *Invasive Ambrosia Beetles that are Decimating our Nursery and Landscape Trees and the Best Control Tactics*
11:15 a.m. -12:15 p.m. **Mark Windham**, *Resistance in Ornamentals: Our Arsenal of Disease Resistant Plants Continues to Grow*
12:15 - 1:15 p.m. [Lunch](#)
1:15 - 2:15 p.m. **Bill Klingeman**, *Thousand Cankers of Walnuts in Eastern U.S.: A Research Based Overview and Monitoring Guide and Update on New IPM Resources for Ornamental Plant Management in Southeast Nurseries and Landscapes*
2:15 - 2:30 p.m. [Break and Opportunity to View Beneficial Insects](#)
2:30 - 3:30 p.m. **JC Chong**, *Pest Identification Walk in Arboretum Gardens*
Cory Tanner, *Disease Identification Walk in Arboretum Gardens*

Greenhouse Track A - Classroom 2

- 10:30 -11:15 a.m. **Cory Tanner**, *Creating a Successful Greenhouse IPM Program*
11:15 a.m. -12:15 p.m. **Craig Adkins**, *Starting Clean/ Staying Clean in the Greenhouse*
12:15 - 1:15 p.m. [Lunch](#)
1:15 - 2:15 p.m. **Stephen Pettis**, *Identifying and Protecting Beneficial Insects while Controlling Harmful Insects*
2:15 - 2:30 p.m. [Break and Opportunity to View Beneficial Insects](#)
2:30 - 3:30 p.m. **Debbie Palumbo-Sanders**, *Establishing a Dip Protocol for Early Intervention in your Pest Management Program (A Hands-on Demonstration is Part of this Presentation)*

Greenhouse Track B - Locke Craig Classroom

10:30 -11:15 a.m.	Suzanne Wainwright-Evans , <i>What's New in Biocontrols</i>
11:15 a.m. - 12:15 p.m.	Stanton Gill , <i>Thrips in Greenhouse and Perennials: The Most Cost Effective Biological and the Newest and Lowest Risk Pesticides for their Control</i>
12:15 - 1:15 p.m.	Lunch
1:15 - 2:15 p.m.	Inga Meadows , <i>Identification and Management of Greenhouse Diseases</i>
2:15 - 2:30 p.m.	Break and Opportunity to View Beneficial Insects
2:30 - 3:30 p.m.	Charlie McKenzie , <i>Beneficials: Moving Beyond the Basics</i>

All Groups

3:30 - 4:00 p.m.	Pesticide Credits Issued at Registration Table
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Please see brief Speaker bios at the end of this document.

THANK YOU TO OUR COMMUNITY PARTNERS AND SYMPOSIUM SPONSORS!





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Thursday, September 28, 2017 9:00 a.m. to 4:00 p.m.

Registration

Two Ways to Register:

- 1- **Online** at <https://4020a.blackbaudhosting.com/4020a/2017-Integrated-Pest-Management-Symposium>
- 2- **Phone:** 828-665-2492, extension 200 during business hours Monday through Friday.

We accept MasterCard, Visa, American Express and Discover.

You will need to know the following information to register:

Participant Name(s):

- 1- _____
- 2- _____
- 3- _____
- 4- _____
- 5- _____

Organization or Business Name: _____

Contact Person: _____

Address: _____

Contact phone number: _____

Email Address _____

Early bird Registration fee through September 7th

Number of Registrants _____ times \$70.00 each for Arboretum Members \$ _____

Number of Registrants _____ times \$75.00 each for Non-Arboretum Members \$ _____

After September 1st

Number of Registrants _____ times \$80.00 each for Arboretum Members \$ _____

Number of Registrants _____ times \$85.00 each for Non-Arboretum Members \$ _____

TOTAL PAYMENT \$ _____

By submitting an online or phone registration you are agreeing to the cancellation policy as shown below and the liability waiver viewable online under the Adult Education section on the Arboretum website.

Cancellation Policy

- If you must cancel your registration, your registration fees (minus a 15% processing charge) will be refunded if notice is received at least eight business days before the symposium begins. No refunds are made less than eight business days prior to the event. In the event that the Arboretum must cancel the event, you will be notified by phone or email, and you will receive a full refund.
- Your payment reserves your seat. If you cannot attend, and it is too late to cancel and receive a refund, you may choose to send an alternate person in your place. If you are late, your seat will still be available for you. We do not transfer a registered student's seat to last minute or walk-in students. Partial refunds or transfers are not available for unattended sessions of a symposium.

Speakers 2017

Craig R. Adkins

Mr. Adkins is an area specialized agent emeritus with North Carolina Cooperative Extension, serving 33 years prior to his retirement. His programming efforts focused on assisting the nursery and greenhouse industries in the foothills region of the state in the areas of green industry production, best management practices and integrated pest management. He graduated from North Carolina State University in ornamental horticulture with bachelor's and master's degrees.

Juang-Horn (JC) Chong

Dr. Chong joined Clemson University in 2007 to develop the turf and ornamentals entomology program. He worked at the University of Georgia for his entomology advanced degrees focusing on the management of the Madeira mealybug in greenhouse ornamental production. Chong has a wide range of research interests, and his ultimate goal is to develop integrative management programs against insects and mites that damage turf grass and ornamental plants. His current research and extension projects focus on understanding the biology, ecology and management of scale insects, boring insects, spider mites, eriophyid mites and their biological control. He was awarded his doctorate in entomology from the University of Georgia.

Stanton Gill

Dr. Gill is the University of Maryland extension specialist in IPM Nursery and Greenhouse Management at Central Maryland Research and Education Center in Ellicott City, Maryland. He has conducted many field trials to evaluate pest control and low risk pesticides on commercial crops. Over his long career he has presented at the international, national and state levels and served many professional associations. Highly published, Gill is featured in books and publications with subjects focused on insect, disease and bio controls.

Bill Klingeman

Dr. Klingeman is a professor in the plant sciences department at the University of Tennessee. Klingeman's research is focused on IPM of common and emerging insect pests and nursery weeds as well as tree-boring insects and walnut twig beetle. He is actively involved with the Southern Nursery IPM Working Group, has written numerous articles about pest management and developed IPM apps for mobile devices. He has received several honors and awards for his work.

Charlie McKenzie

Charlie McKenzie was the production manager for Tawaga Greenhouses in New Mexico, where he spearheaded a bio-control program early in his career. A graduate of the University of Georgia, he is now a crop protection and health advisor for Biobest USA. His experience with diverse crop production and integrated pest management make him an excellent resource for those who want to increase their knowledge of using beneficial insects and bio controls.

Inga Meadows

Ms. Meadows is a North Carolina Cooperative Extension associate for vegetables and herbaceous ornamentals. Her background is in plant disease diagnostics, ornamental plant pathology, forest pathology, and Phytophthora species. Meadows manages the plant pathology lab at the Mountain Horticulture Crops Research Station. She received her bachelor's in botany at Oregon State University and master's in plant and environmental science at Clemson University.

Debbie Palumbo-Sanders

Ms. Palumbo-Sanders is a technical services specialist for Bioworks and currently manages internal trials, runs product compatibility testing, and is part of the technical services team advising on product use questions. Palumbo-Sanders graduated from Cornell University with a bachelor's in plant sciences and master's in plant pathology from the University of Arkansas.

Stephen Pettis

Mr. Pettis is the Henderson County commercial and consumer extension agent. He holds a bachelor's degree in horticulture and a master's in plant protection and pest management from the University of Georgia. Pettis has worked as a nursery grower, a greenhouse manager and arborist as well as a county agent in two counties in Georgia.

Cory Tanner

Mr. Tanner is the urban horticulture program team leader with the Henderson County Cooperative Extension Service. He earned his bachelor's and master's at Clemson University and is currently pursuing his doctorate in entomology. Tanner has written numerous horticultural columns and fact sheets and provides statewide programmatic leadership for extension agents.

Mark Windham

Dr. Windham is a professor and distinguished chair of ornamental pathology at the University of Tennessee. Windham's research emphases include diseases of African violets, azaleas, black walnut, crape myrtle, dogwoods, hydrangeas, ornamental grasses, and roses. He has released eight disease resistant dogwood cultivars and holds six patents. Windham has authored more than 200 publications and co-edited a text book for introductory plant pathology. His current projects

involve epidemiology and management of rose rosette disease, foliar diseases of hydrangea, and thousand cankers disease of black walnut.

Suzanne Wainwright-Evans

Ms. Wainwright-Evans is an entomologist specializing in integrated pest management. She has been involved in the green industry for more than 25 years with a primary focus on biological control and proper pesticide use. She is a graduate of the University of Florida with degrees in entomology and environmental horticulture. Wainwright-Evans consults and speaks internationally on controlling pests and is the owner of Buglady Consulting, a business celebrating 16 years of service to the industry.