Horticulture Industry
Integrated Pest Management Symposium

5th Annual Symposium for Professionals in the Horticulture and Landscape Industry
at The North Carolina Arboretum, Asheville, N. C.
in conjunction with North Carolina Cooperative Extension

New in 2015! Agriculture Track

Thursday, October 1, 2105
9:00 a.m. to 4:00 p.m.

Registration Fees
Early bird discount through September 10, $60 Member/$65 Non-member
After September 10, $70 Member/$75 Non-member
Lunch and snacks are included in the registration fee.

Pesticide credits available from N.C., S.C. and Tn.

AGENDA in brief

Plenary Session
9:00 - 9:15 a.m. Welcome and Announcements
9:15 - 10:15 a.m. Keynote Speaker Ronald Valentin, Biocontrol Developments at a Global Level
10:15 - 10:30 a.m. Break and Opportunity to View Beneficial Insects

Landscape & Nursery Track
10:30 - 11:15 a.m. Alan Windham, University of Tennessee, A Systems Approach to Plant Disease Management
11:15 a.m. - 12:15 p.m. Steve Frank, North Carolina State University, Urbanization and Bee Health
12:15 - 1:15 p.m. Lunch
1:15 - 2:15 p.m. Brian Kunkel, University of Delaware, New Pest: Red Headed Flea Beetle
2:15 - 2:30 p.m. Break and Opportunity to View Beneficial Insects
2:30 - 3:30 p.m. Juang-Horng (JC) Chong, Clemson University, Mites in the Landscape: Identification, Miticides and Biological Control

Greenhouse Track
10:30 - 11:15 a.m. Nancy Zethof, Biobest North America, Getting Started with Beneficial Insects in the Greenhouse
11:15 a.m. - 12:15 p.m. Jean Williams-Woodard, University of Georgia, Countdown of the Top Greenhouse Diseases and Their Control
12:15 - 1:15 p.m. Lunch
1:15 - 2:15 p.m. Juang-Horng (JC) Chong, Clemson University, Mites in the Greenhouse: Identification, Miticides, and Biological Control
2:15 - 2:30 p.m. Break and Opportunity to View Beneficial Insects
2:30 - 3:30 p.m. Sam Newsome, Van Wingerden International, IPM Practices at Van Wingerden International

Agriculture Track
10:30 - 11:15 a.m. Craig Mauney, North Carolina Cooperative Extension Service, IPM of Small Fruits
11:15 a.m. - 12:15 p.m. Stephanie Darnell and Becky Langer, Bayer CropScience, Honeybees: At the Cross Roads of Emotion and Science
12:15 - 1:15 p.m. Lunch
1:15 - 2:15 p.m. Alison Reeves, North Carolina State University, IPM Practices at the NCSU Agroecology Student Farm
2:15 - 2:30 p.m. Break and Opportunity to View Beneficial Insects
2:30 - 3:30 p.m. Meghan Baker, North Carolina Cooperative Extension Service, Attracting and Identifying Beneficial Insects to Your Farm

All Groups
3:30 - 4:00 p.m. Pesticide Credits Issued at Registration Table

Please see Speaker bios at end of this form.
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Registration Form

Three Ways to Register:
1- Online at http://www.ncarboretumregistration.org with a credit card – we accept MasterCard, Visa and Discover.

2- Mail in or drop off this form with a check payable to The North Carolina Arboretum Society.
ATTN: Registrar, 100 Frederick Law Olmsted Way, Asheville, NC  28806

3- Phone 828-665-2492, extension 200 during business hours Monday - Friday.

Participant Names:
1- _____________________________________________________________________________________________________
2- _____________________________________________________________________________________________________
3- _____________________________________________________________________________________________________
4- _____________________________________________________________________________________________________
5- _____________________________________________________________________________________________________

Organization or Business Name: ____________________________________________________________

Contact Person: __________________________________________________________________________

Address: ________________________________________________________________________________

Contact phone number: ____________________________________________________________________

Email Address ____________________________________________________________________________

Early bird Registration fee through September 10th

Number of Registrants _________ times $60.00 each for Arboretum Members     $__________
Number of Registrants _________ times $65.00 each for Non-Arboretum Members      $__________

After September 10th

Number of Registrants _________ times $70.00 each for Arboretum Members    $__________
Number of Registrants _________ times $75.00 each for Non-Arboretum Members      $__________

TOTAL PAYMENT $__________

If you would like to pay by credit card over the phone, we accept MasterCard, Visa and Discover. Please call and speak with the Registrar at 828.665.2492, extension 200.

By submitting a paper, online, or phone registration you are agreeing to the cancellation policy as outlined below.

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.
2015 Horticulture Industry Integrated Pest Management Symposium

Speakers

Meghan Baker
Meghan has been a North Carolina Cooperative Extension Agent in agriculture in the Buncombe County Center since 2012 working with small farmers in the region. She was an agent in the Boone, N. C. area for seven years, working in commercial and consumer horticulture. She earned her bachelor’s of arts in interdisciplinary studies at Appalachian State University and her master’s of science in plant and environmental science from Clemson University in 2005.

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. JC has a wide range of research interests and his ultimate goal is to develop integrative management programs against insects and mites that damage turfgrass 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.

Stephanie Darnell
Stephanie is the science communicator for the pollinator safety group at Bayer CropScience LP and is responsible for science communications and forage habitat initiatives for the North American Bee Team. Stephanie received a bachelor’s degree in horticulture with a minor in chemistry from Northwest Missouri State University. She received her master’s of science degree in entomology from the University of Nebraska - Lincoln. After graduate school, she was the assistant programming director at Monarch Watch. She joined Bayer CropScience in 1999 as a research biologist for the consumer product line. In 2006, Stephanie moved to Raleigh, N. C. and became a product development manager for consumer and professional ornamental insecticides prior to the development of her current responsibilities.

Steve Frank
Dr. Frank earned his Ph.D. in entomology in 2007 from the University of Maryland. His research and extension programs at North Carolina State University focus on pest management in greenhouses, nurseries, and urban landscapes. His lab also investigates how to conserve pollination and other ecosystem services in urban landscapes. The overall goal of his research is to improve pest management by understanding the biological and environmental factors that negatively affect beneficial insects and benefit pests. This information is used to improve biological control, cultivation practices, and habitat conditions to reduce pest abundance and damage.

Brian Kunkel
Dr. Kunkel is an entomologist at the University of Delaware Cooperative Extension. Dr. Kunkel received his master’s in entomology from the University of Kentucky in 1998, his Ph.D. in entomology from the Ohio State University in 2003, and completed his post-doctoral work between 2004 and 2006 at the USDA-ARS Small Fruit and Tree Nut Research Laboratory in Byron, Georgia. Some of his research projects include the impact of insecticides on insect predators in turfgrass, entomopathogenic nematode infection dynamics, and conservation biological control in pecan orchards, armored scale, pesticide efficacy testing, and boxwood leaf miner. As the ornamentals Integrated Pest Management (IPM) extension specialist for the University of Delaware, Dr. Kunkel is responsible for master gardener training, industry workshops, writing articles for local trade journals, and a weblog featuring pictures of pest insects on woody ornamentals.

Becky Langer
Dr. Langer is project manager of North American Bee Health for Bayer CropScience ensuring the success of the North American Bee Project Team and directing and managing bee care strategy and activities. Becky has served on the facilitator network supporting Bayer CropScience’s high performance culture initiative, on the diversity council and led the site sustainability working group. Becky received a bachelor’s degree in microbiology and a doctorate in pathobiology from the University of Arizona. She joined Bayer CropScience in 2010 as North American biosafety site manager. She was the biosafety manager and director of high containment at Baylor College of Medicine, where she held a faculty appointment in the department of molecular virology and microbiology.

Craig Mauney
Craig is a North Carolina Cooperative Extension area agent based in Henderson County for agriculture-commercial vegetables. He earned his bachelors of science in agriculture from Berea College and works with farmers on improving production while using sustainable methods of integrated pest management.
Sam Newsome
Sam joined Van Wingerden International in 2010 and currently manages an acre of production area. He developed the bio-control program for their Ipomoea stock plant production and has worked in IPM in many of the crops grown at the facility. He earned an associate’s degree in horticulture from Haywood Community College and was the greenhouse assistant at The North Carolina Arboretum for two years.

Alison Reeves
Alison is the Farm Manager at the North Carolina State University Agroecology Teaching Farm. Previously, she was the garden manager at the Virginia Tech dining services garden. She received her master’s of science in entomology from Virginia Tech and her bachelor’s of science in environmental science from the University of North Carolina at Asheville. Reeves completed an internship program at The North Carolina Arboretum, advancing into a temporary greenhouse assistant position as the internship was completed.

Ronald Valentin
Dr. Valentin joined Syngenta in 2015 and is the technical lead Bioline-North America. Born into the greenhouse industry in the Netherlands, his father began using biological controls in 1971. At a young age Ronald began managing and producing the control agents for the family operation. After finishing his education in crop protection management, biochemistry and vegetable production he embarked on a career in biological control in 1986. He immigrated to Canada in 1996 becoming a citizen in 2004. Ronald’s career includes numerous management positions with organizations employing biological control strategies.

Jean Williams-Woodward
Dr. Williams-Woodward is an associate professor of plant pathology at the University of Georgia’s College of Agricultural and Environmental Sciences. She works closely with commercial greenhouses, nurseries and landscape managers in Georgia providing diagnosis and management recommendations for plant diseases affecting ornamental plants. Jean teaches several courses on plant disease diagnosis and ornamental pest management and has authored extension publications and book chapters on ornamental plant diseases. She received her master’s of science and Ph.D. in Plant Pathology from the University of Wyoming and the University of Minnesota, respectively.

Alan Windham
Dr. Windham is a professor of ornamental and turf pathology with the University of Tennessee at the Soil, Plant and Pest Center at Ellington Agricultural Center in Nashville. His work with greenhouses, nurseries, garden centers and landscape contractors includes the diagnosis and management of plant diseases. Dr. Windham co-wrote and edited “Plant Pathology Concepts, Second Edition.”

Nancy Zethof
Nancy is a Biological Crop Protection Specialist with Biobest International Biological Corporation, helping growers in the Southeast United States implement IPM programs using biocontrols. Formerly, she was a perimeter facility manager at Metrolina Greenhouses in Huntersville, N. C. where she spearheaded the biological control program for 15 years. She earned her bachelor’s of science in horticulture from the University of Wisconsin - Madison, in 1992.