

# The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

## Emerging Issues in Tree and Forest Health:

### Diagnosis and Treatment

September 8-9, 2010

Instructors: Kim Coder, Kamal Gandhi and Jean Woodward-Williams  
Flinchum's Phoenix, Athens, Georgia



**WARNELL**  
SCHOOL OF FORESTRY AND NATURAL RESOURCES  
THE UNIVERSITY OF GEORGIA

### About the Program

This course will focus on key components of forest and tree health in southern forest landscapes. In-depth topics will include insect threats, tree diseases, and abiotic stress factors such as soil compaction and drought.

### Who Should Attend?

This course is for arborists, foresters, landscape architects, landscape managers, nursery managers and others responsible for tree health.

### Registration Fees

The fee for this course is \$295, which includes instructional materials, two luncheons, and refreshment breaks. There is a \$50.00 discount for a fee paid by check or credit card and postmarked by August 18, 2010. Pre-registration must be accompanied by check, purchase order, or credit card number to guarantee a place in the course. Limited seating is available. The last day for registration is August 30. No walk-ins will be allowed.

### Instructors

**Dr. Kim D. Coder** is Professor of Tree Biology and Health Care at the Warnell School of Forestry and Natural Resources, University of Georgia in Athens, Georgia, USA. Dr. Coder was elected world President of the International Society of Arboriculture by fellow professionals. In the last decade, he has received three of the tree health care professions highest worldwide, peer selected awards. Dr. Coder is author of over 450 technical publications and articles. He is an international lecturer and consultant to private citizens, corporations, attorneys, and communities on tree health care, tree biomechanics, abiotic tree stress, risk management, tree physiology, and community forest ecology. He has degrees from Iowa State University in forestry, tree biology, and forest ecology.

**Dr. Kamal JK Gandhi** is an Assistant Professor of Forest Entomology in the Warnell School of Forestry and Natural Resources. With more than 15 years experience in the field of forest health and protection, Dr. Gandhi has worked with a number of national and international universities, and various state and federal agencies. The mission of her laboratory at the Warnell School is to better understand the ecology of forest insects across ecosystems, and to assist with maintaining health and protecting forest stands from insects and diseases. She received her M.S. from the University of Alberta, and Ph.D. from the University of Minnesota.

**Dr. Jean Williams-Woodward** is an Associate Professor in the College of Agricultural & Environmental Sciences at the University of Georgia. She obtained her B.S. and M.S. degrees at the University of Wyoming and her Ph.D at the University of Minnesota.

# The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

## Emerging Issues in Tree and Forest Health: Diagnosis and Treatment

September 8-9, 2010

Instructors: Kim Coder, Kamal Gandhi and Jean Woodward-Williams  
Flinchum's Phoenix, Athens, Georgia



**WARNELL**  
SCHOOL OF FORESTRY AND NATURAL RESOURCES  
THE UNIVERSITY OF GEORGIA

## Course Itinerary

*Wednesday, September 8, 2010*

**8:00-8:30 am Registration**

**8:30-10:00 Session I – Abiotic factors (Coder)**

- Understanding key stressors and tree reactions
- Water dose problems: drought/flood
- Misdiagnosing essential element problems

10:00-10:30 Coffee Break

**10:30-12:15 Session II – Harmful forest insects (Gandhi)**

**Introduction to forest insects and forest health issues in southern forests**

- Importance of forest insects to forest health and management on your property
- Nuts and bolts of being an insect
- Differentiating between major orders of forest insects common in our region
- Collecting and preserving forest insects for correct problem diagnosis

**Defoliating and sap-sucking forest insects: identification, damage, and control**

- Major categories of damage caused by defoliating and sap-sucking insects.
- The major groups of defoliating and sap-sucking insects
- Recent case studies of common defoliating and sap-sucking insects and their management: eastern tent caterpillar, fall webworm, cicadas, scale insects

12:15-1:15 Lunch

**1:15-3:00 Session II – Harmful forest insects (Gandhi)**

**Bark beetles, ambrosia beetles, and woodboring forest insects: identification, damage, and control**

- Differentiating between damage from bark beetles, ambrosia beetles, and woodboring insects
- Major species of bark beetles, ambrosia beetles, and woodboring forest insects in the southern region
- Recent case studies of common bark beetles, ambrosia beetles, and woodboring insects and their management: southern pine beetle, pine engraver, black turpentine beetle, root collar weevil

**Seed and cone insects: identification, damage, and control**

- Seed and cone insects and how to differentiate between damage caused by these insects
- Major species of seed and cone insects in the southern region
- Case studies of common seed and cone insects and their management: leaf-footed pine seedbug, coneworms

3:00-3:30 Coffee Break

# The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

Emerging Issues in Tree and Forest Health:

Diagnosis and Treatment

September 8-9, 2010

Instructors: Kim Coder, Kamal Gandhi and Jean Woodward-Williams  
Flinchum's Phoenix, Athens, Georgia



**WARNELL**  
SCHOOL OF FORESTRY AND NATURAL RESOURCES  
THE UNIVERSITY OF GEORGIA

## **3:30-5:00 Session II – Harmful forest insects (Gandhi)**

### **Old, new, and emerging exotic forest insects: identification, damage, and control**

- What are exotic forest insects, and why do we need to pay close attention to them?
- Which are the major old, new, and upcoming exotic forest insects in the southern region?
- Case studies of exotic insects and their management: gypsy moth, hemlock woolly adelgid, European woodwasp, redbay ambrosia beetle, emerald ash borer

## **5:00 Adjourn**

*Thursday, September 9, 2010*

## **8:00-9:45 Session III – Fungi and sudden oak death (Williams-Woodward)**

### **Identifying wood decay fungi**

- Rots, mushrooms and conks commonly encountered in Georgia (a pictorial guide and key will be provided).

### **Sudden oak death in eastern forests and landscapes**

- *Phytophthora ramorum*, the cause of Sudden Oak Death (SOD): how to recognize symptoms and hosts for early detection in eastern forests

9:45-10:15 Coffee Break

## **10:15-11:45 Session IV – Soil compaction and Mistletoe (Coder)**

- Soil compaction: a hidden killer
- The scourge that is mistletoe

11:45-1:00 Lunch (Last chance to speak with vendors)

## **1:00-2:30 Session V– Foliage diseases and bacterial leaf scorch (Williams-Woodward)**

### **Foliage diseases of hardwood trees**

- Spots and blights commonly seen on shade trees: seasonal occurrence and management options

### **Bacterial leaf scorch on landscape trees**

- Bacterial leaf scorch caused by *Xylella fastidiosa*: symptoms, hosts, and treatment options

2:30-2:45 Coffee Break

## **2:45-4:30 Session VI - Rust, Gall, and Canker disease identification (Williams-Woodward)**

- Recognizing and managing common rust, gall and canker diseases commonly seen on conifers and hardwoods

## **4:30-4:40 Conclusion & Evaluations**

# The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

## Emerging Issues in Tree and Forest Health:

## Diagnosis and Treatment

September 8-9, 2010

Instructors: Kim Coder, Kamal Gandhi and Jean Woodward-Williams  
Flinchum's Phoenix, Athens, Georgia



**WARNELL**  
SCHOOL OF FORESTRY AND NATURAL RESOURCES  
THE UNIVERSITY OF GEORGIA

### Continuing Education Credits

- 13.0 Continuing Forestry Education credit hours (approved)
- 13.0 Continuing Logger Education credit hours (approved)
- 13.0 Board of Certified Master Arborists credit hours (approved)
- 13.0 Certified Arborist credit hours (approved)

***Full Attendance is Mandatory to Receive Credit.***

You may register using the form below, or register online at <http://conted.warnell.uga.edu> or by phone by calling Ingvar Elle at 706-583-0566.

### Registration Form

\_\_\_\_\_  
Name - please print

\_\_\_\_\_  
Preferred name for badge

Business mailing address or  Home address (please check one)

\_\_\_\_\_  
City State Zip County, if Georgia

\_\_\_\_\_  
Home phone Work phone Fax

\_\_\_\_\_  
Email address  Please send me e-mails about other Warnell Continuing Education programs.

\_\_\_\_\_  
Position Organization/employer

*By registering for this event I agree to comply with all event and lodging cancellation policies.*

Emerging issues in Tree and Forest Health—Diagnosis and Treatment

September 8-9, 2010

Early registration by August 18, 2010.....\$245.00

Fee Paid after August 18, 2010.....\$295.00

Total: \$\_\_\_\_\_

Enclosed is a check # \_\_\_\_\_

(payable to Warnell School of Forestry and Natural Resources)

Your registration will not be processed until payment is received.

# The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

## Emerging Issues in Tree and Forest Health: Diagnosis and Treatment

September 8-9, 2010

Instructors: Kim Coder, Kamal Gandhi and Jean Woodward-Williams  
Flinchum's Phoenix, Athens, Georgia



**WARNELL**  
SCHOOL OF FORESTRY AND NATURAL RESOURCES  
THE UNIVERSITY OF GEORGIA

Mail payment to: Attn: Ingvar Elle  
Warnell School of Forestry & Natural Resources  
The University of Georgia  
Athens, Georgia 30602

### Cancellations:

Notice must be received by 5:00 p.m. August 25, 2010 for a refund. Contact Ingvar Elle at 706-583-0566.

### Parking and Directions

Parking at Flinchum's Phoenix at Whitehall Forest is free of charge.

For a map and directions to Flinchum's Phoenix go to:

[http://www.warnell.uga.edu/h/aboutWSFR/directions/index\\_html/view?searchterm=Flinchum%27s%20Map](http://www.warnell.uga.edu/h/aboutWSFR/directions/index_html/view?searchterm=Flinchum%27s%20Map)

### Special Services

Flinchum's Phoenix is handicap accessible.

If you require special services or dietary considerations, please contact Ingvar Elle at 706-583-0566 or e-mail him at [ielle@warnell.uga.edu](mailto:ielle@warnell.uga.edu) prior to August 18, 2010.

### Lodging

A block of rooms has been set aside at the Holiday Inn Express ((706) 546-8122) in Athens for attendees of Emerging Issues on Tree and Forest Health. The hotel address is 513 West Broad Street, Athens, GA 30601. Rooms are \$89.00 plus %14 percent sales tax. Use code "WFH". Please reserve room by August 17, 2010.