Joint meeting of the

**SOUTHERN FOREST INSECT WORK CONFERENCE**

**SOUTHWIDE FOREST DISEASE WORKSHOP**

July 24 – 27, 2012

Charlottesville, VA

**Program**

<table>
<thead>
<tr>
<th>Tuesday, July 24</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 – 2:30 pm Southern Pine Beetle</td>
<td>James Monroe</td>
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<tr>
<td>Working Group 2012</td>
<td>James Monroe</td>
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<tr>
<td>SPB current status updates.</td>
<td>James Monroe</td>
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<td>SPB Prevention Program. John Nowak.</td>
<td>James Monroe</td>
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<tr>
<td>Novel method to prevent SPB. Jim Meeker.</td>
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<tr>
<td>Transect project. Stephen Clarke.</td>
<td>James Monroe</td>
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<td>Quantifying insect edge behavior.</td>
<td>James Monroe</td>
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<td>John Reeve.</td>
<td>James Monroe</td>
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<td>The enantiomer response of southern</td>
<td>James Monroe</td>
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<td>pine beetle to host monoterpene, α-</td>
<td>James Monroe</td>
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<td>Pinene.</td>
<td>James Monroe</td>
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<td>Jenny Staeben.</td>
<td>James Monroe</td>
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<td>SPB Data Portal. Tony Courter.</td>
<td>James Monroe</td>
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<td>2:45 – 5:00 pm State Cooperators</td>
<td>James Monroe</td>
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<tr>
<td>Meeting/ Forest Health Task Force</td>
<td>James Monroe</td>
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<tr>
<td>(SFIWC/ SWFDW)</td>
<td>James Monroe</td>
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<tr>
<td>3:00 – 5:00 pm Poster set up</td>
<td>Jefferson Ballroom</td>
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<td>Salon A</td>
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<tr>
<td>3:00 – 6:30 pm Meeting Registration</td>
<td>Prefunction ballroom</td>
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<td>(SFIWC/ SWFDW)</td>
<td>Prefunction ballroom</td>
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<td>5:00 – 5:45 pm AD Hopkins Award</td>
<td>Ashlawn/Highlands</td>
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<td>Committee (SFIWC)</td>
<td>Ashlawn/Highlands</td>
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<tr>
<td>Roger F Anderson Award Committee</td>
<td>Ashlawn/Highlands</td>
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<td>(SFIWC)</td>
<td>Ashlawn/Highlands</td>
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<td>5:45 – 6:15 pm Executive Team Meeting</td>
<td>Ashlawn/Highlands</td>
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<td>(SFIWC)</td>
<td>Ashlawn/Highlands</td>
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<td>6:30 – 8:30 pm Mixer and Reception</td>
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**Wednesday, July 25**

Breakfast – on your own

**General Session**

8:00 – Noon  
Meeting Registration (SFIWC/ SWFDW)  
Prefunction ballroom  
Jefferson Salon BC

8:00 – 8:30 am  
SFIWC Opening Business Meeting

8:30 – 8:35  
**Welcome** – Chairs Bud Mayfield (SFIWC) and Michelle Cram (SWFDW)
Salon BC

8:35 – 9:00  
**Opening Presentation:** “The Trees of Monticello: Thomas Jefferson’s Arboreal World” – Peggy Cornett, Curator of Plants at Monticello
Salon BC

9:00 – 10:30  
**Plenary Session – Entomology and Pathology Symbioses** –  
Bud Mayfield, USFS SRS, Moderator
Salon BC

Jiri Hulcr, School of Forest Resources and Conservation, University of Florida, Gainesville, FL. “Why are insect fungus symbioses becoming so important in contemporary forest entomology?”

Meredith Blackwell, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA. “Close associations: fungi in the gut of beetles”

10:30 – 11:00  
Break and Group Photos

11:00 – noon  
**AD Hopkins Award Presentation** –  
Kier Klepzig, Ass’t Director, USDA Forest Service Southern Research Station.  
“I couldn’t have done it without you: Mutualism in research and life”  
Salon BC

Noon – 1:30 pm  
Lunch – on your own
1:30 – 3:00  Graduate Student Presentations –  Salon BC

Josh Adkins (University of Kentucky) & Ligia Vieira (Virginia Tech), Co-Moderators, SFIWC & SWFDW Graduate Students

1. Hemlock woolly adelgid threatens resources for benthic macroinvertebrate shredders in headwater streams.
   Joshua K. Adkins, Lynne K. Rieske, Dept. of Entomology, Univ. Kentucky

2. Macroinvertebrate colonization is influenced by litter source in Appalachian headwater streams.
   Chris Strohm, Lynne K. Rieske, Dept. of Entomology, Univ. Kentucky

3. Influence of elevation and hemlock woolly adelgid infestation levels on water stress in eastern hemlocks in the Great Smoky Mountains National Park.
   Carla I. Coots¹, P. L. Lambdin², J. F. Grant³, J. A. Franklin⁴, J. R. Rhea⁵, ¹University of Tennessee, Dept. of Entomology & Plant Pathology; ²Dept. of Forestry, Wildlife & Fisheries; ³USDA Forest Service FHP

4. Physiological decline and recovery of eastern hemlock to hemlock woolly adelgid.
   Kelly McDonald¹, John Seiler¹, Scott Salom², and Rusty Rhea³, Virginia Tech, ¹Department of Forestry and Environmental Conservation; ²Department of Entomology; ³USDA Forest Service FHP

5. Fitness and fecundity of hemlock woolly adelgid in relation to the health of the eastern hemlock.
   Anne Jones¹, Scott Salom¹, Don Mullins¹, Rusty Rhea², ¹Virginia Tech Dept. of Entomology; ²USDA Forest Service FHP

6. Mortality of aestivating hemlock woolly adelgid due to high temperatures.
   Angela M. Mech¹, Robert O. Teskey¹, J. Rusty Rhea², Kamal Gandhi¹, ¹Warnell School of Forestry and Natural Resources, University of Georgia; ²USDA Forest Service FHP

7. *Laricobius nigrinus* responds positively to increased hemlock woolly adelgid densities across multiple species of hemlock.
   Lori Nelson, Lynne K. Rieske, Dept. of Entomology, Univ. Kentucky

8. Field assessment of hybridization between *Laricobius nigrinus* and *L. rubidus*, predators of Adelgidae
   Melissa Joy Fischer¹, Nathan P. Havill², Gina A. Davis³, Scott S. Salom¹, Loke T. Kok¹, ¹Virginia Tech, Dept. of Entomology; ²USDA Forest Service, Northern Research Station; ³University of Massachusetts, Amherst

3:00 – 3:30  Break
3:30 – 5:30

**Graduate Student Presentations** – Salon BC

Josh Adkins (University of Kentucky) & Ligia Vieira (Virginia Tech), Co-Moderators, SFIWC & SWFDW Graduate Students


10. Supercooling in the redbay ambrosia beetle (*Xyleborus glabratus*)—implications for invasion potential in the northern latitudes of North America. John P. Formby¹, Natraj Krishnan¹, Will Underwood², John J. Riggins³, ¹Dept. of Biochemistry, Molecular Biology, Entomology, & Plant Pathology, Mississippi State University; ²Grand Bay National Estuarine Research Reserve, Moss Point

11. Tracking local dispersal of an exotic invader using remote sensing and spatial analysis. Ignazio Graziosi, Lynne K. Rieske, Dept. of Entomology, Univ. Kentucky

12. Mapping loblolly pine decline hazard and risk across the southeastern United States. Matthew Meyerpeter, Lori Eckhardt, Forest Health Dynamics Laboratory, Auburn University

13. Variation in resistance of *Pinus taeda* families against *Leptographium* root infecting fungi. Amritpal Singh, Lori Eckhardt, Forest Health Dynamics Laboratory, Auburn

14. Predators of the semio-chemical community of the southern pine beetle (*Dendroctonus frontalis*). Jen Staeben¹, Matt Ayers², Kamal Gandhi¹, ¹Warnell School of Forestry and Natural Resources, University of Georgia; ²Dartmouth

15. Assessing the impacts of cogongrass (*Imperata cylindrica*) on root-feeding bark beetle populations associated with southern pine decline. Ben Brunson¹, Emily Carter², and Lori Eckhardt¹, ¹Forest Health Dynamics Laboratory, Auburn University; ²USDA Forest Service Southern Research Station

16. *Sirex nigricornis* (Hymenoptera: Siricidae) abundance in various forest stand types in Mississippi. K. D. Chase¹, K.J.K. Gandhi², and J.J. Riggins¹, ¹Biochemistry, Molecular Biology, Entomology and Plant Pathology, Mississippi State University; ²Warnell School of Forestry and Natural Resources, University of Georgia

17. Abundance and diversity of insect pollinators in riparian forests 5 years post-removal of Chinese Privet (*Ligustrum sinense*). Jacob Hudson¹, Jim Hanula², Scott Horn³, Kris Braman¹, ¹University of Georgia, Department of Entomology; ²USDA Forest Service, Southern Research Station
18. Feeding preference of subterranean termites for wood containing various sap-stain fungi
Nathan S. Little¹, Tor P. Schultz², Susan V. Diehl², Andrew J. Londo³, and John J. Riggins³, Mississippi State University ¹Dept. of Entomology and Plant Pathology; ²Dept. of Forest Products; ³Dept. of Forestry

5:30 – 7:00  Poster Session (SFIWC/ SWFDW) – Salon A
Jason Moan (NC FS), Moderator
See page 12 for a complete list of poster titles, authors and affiliations
Authors present (reception)

NOTES
**THURSDAY, JULY 26**

Breakfast – on your own

**General Session 1 – Thousand Cankers Disease –**  
Bud Mayfield, USFS SRS, Moderator  
Jefferson BC

**8:30 – 9:15 am**  
*TCD: Overview & origins* – Whitney Cranshaw,  
Department of Bioagricultural Sciences and Pest Management, Colorado State University, Ft. Collins.

**9:15 – 9:40**  
*TCD: An eastern perspective and what we may expect in the near future* – Mark Windam,  
Department of Entomology and Plant Pathology, University of Tennessee, Knoxville.

**9:40 – 10:00**  
*TCD: A regulatory perspective* – Norm Dart,  
Virginia Department of Agriculture and Consumer Services

**10:00 – 10:30**  
Break

**NOTES**
10:30 – noon  

Concurrent Session I

I.1. Don’t Move Firewood! –  
Keith Douce, University of Georgia, Moderator

An overview of the history and operation of the Don’t Move Firewood (DMF) campaign. Keith Douce, UGA.

APHIS Firewood Initiatives. Paul Chaloux, National Program Manager, APHIS Emerald Ash Borer Program.


An educational campaign to minimize risk of firewood movement, a southern approach. Chip Bates, Georgia Forestry Commission.


Summary and Wrap-up. Douce.

10:30 – noon  

I.2. American Chestnut Restoration –  
Thomas Saielli, The American Chestnut Foundation, Moderator.

The Virginia Department of Forestry American Chestnut Restoration Program. Jerre Creighton, VA DOF.

Looking for resistance to Phytophthora cinnamomi in hybrid seedlings of American chestnut. Steve Jeffers, Clemson University.

Asian chestnut gall wasp accumulates natural enemies as it expands its geographic range. Lynne Rieske-Kinney, University of Kentucky.

I.3. Pathology & Entomology in Practice 1

Submitted papers, Steve Oak, USFS SRS, & Scott Enebak, Auburn, Co-Moderators

Control of Rhizoctonia Foliar Blight in Forest Seedling Nurseries: A 3-year study. T.E. Starkey and S.A. Enebak

Monitoring the impacts of a potential scale/pathogen complex on symptomatic eastern white pine trees in the Southern Appalachians. C. Asaro, D. Coyle, M. Cram, A. Mech, P. Gullan and K. Gandhi

Caliciopsis pinea and other fungal pathogens associated with Matsucoccus damage to Pinus strobus in Virginia and Georgia. M. Cram, A. Mech, C. Asaro, D. Coyle, P. Gullan and K. Gandhi

Forest Insects and Disease: High Impact Teaching. D. Kulhavy

A survey of the wilt fungus Verticillium nonalfalfae on the invasive tree-of-heaven in the southeast. A.L. Snyder, S.M. Salom and L.T. Kok


Noon – 1:30 pm

Lunch – on your own

1:30 – 5:30 pm

Afternoon Activities (Monticello tour, Frustrana Cup, Frontalis Cup)

5:30 – 6:30 pm

Poster Viewing/ Photo Salon

Salon A

6:30 – 9:00 pm

Banquet and Awards –

- Photo Salon-Slide Contest (SFIWC/SWFDW – Steve Oak, Laurie Reid)
- Graduate Student Presentation Awards (SFIWC/SWFDW – Michelle Cram)
- Outstanding Forest Pathologist (SWFDW – Michelle Cram)
- Outstanding Forest Pathology paper (SWFDW – Michelle Cram)
- Roger Anderson Award (SFWIC – Fred Hain)
- AD Hopkins Award (SFIWC – Scott Salom)
FRIDAY, JULY 27

Breakfast – on your own

**General Session 2 – Laurel Wilt Disease –**

     Jason Smith, University of Florida, Moderator

Jefferson BC

8:00 – 8:30  **LWD: Overview** – Randy Ploetz,
   Tropical Research and Education Center, University
   of Florida

8:30 – 9:00  **LWD: Insect Perspective** – Jim Hanula,
   USDA FS SRS, Athens, GA

9:00 – 9:30  **LWD: Fungal Perspective** – Jason Smith,
   University of Florida

9:30 – 10:00  Break

NOTES
10:00 – noon

**Concurrent Sessions II**

**II.1. Pine Decline –**
Kier Klepzig, USFS SRS, Moderator

What is a decline? And what is a *Leptographium*? Kier Klepzig, USFS SRS

Declines in context – Scott Cameron, Consulting Forester

Extent and nature of *Leptographium* associated declines in the South – Lori Eckhardt, Auburn University

Prevalence and associations of pine declines in Georgia – Kamal Gandhi and Dave Coyle, University of Georgia

**II.2. Hemlock Woolly Adelgid –**
Scott Salom, Virginia Tech, Moderator

Consequences of the loss of hemlock. Bob Coulson, Texas A & M

Tree/insect response and resistance. Robert Jetton, Camcore

Hemlock woolly adelgid Management. Scott Salom, Virginia Tech

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**NOTES**
II.3. Pathology & Entomology in Practice 2

Submitted papers, Steve Oak, USFS SRS, & Scott Enebak, Auburn, Co-Moderators

The identification, propagation, and screening of redbay (Persea borbonia) selections for resistance against laurel wilt disease. Marc Hughes

Development of a reliable molecular diagnostic method for laurel wilt. Tyler Dreadon

Life history and attack strategy of the redbay ambrosia beetle, Xyloborus glabratus. Michael Lake Maner, James Hanula and Kris Braman

Responses of Three Species of Tsuga to Infestation of Adelges tsugae. Mary Talley, Fred Hain

BOB vs. Bags: Comparison of in situ and in vitro baiting assays for Phytophthora ramorum survey of waterways in the US 2011-2012. Steve Oak, Jaesoon Hwang, Steve Jeffers

Juvabione occurrence in healthy and infested Fraser Fir. D. Bednar, F. Hain, A. Cohen

Using LiDAR to link forest canopy conditions with diversity patterns of Lepidoptera at Mammoth Cave National Park. L.E. Dodd, N. S. Skowronski, M. B. Dickinson, M. J. Lacki, L. K. Rieske

On the trail of oak killers in Florida. Jason Smith

Noon – 12:30 SFIWC – Closing Business Meeting

Salon C

SWFDW – Closing Business Meeting

Ashlawn/Highlands
1. Characterizing the Communities of Bark and Woodboring Beetles in Hemlock-dominated Forests. Courtney L. Brissey, Angela M. Mech, David R. Coyle, & Kamal Gandhi, University of Georgia.

2. Third row thinning effect on root-feeding beetle population dynamics and incidence of ophiostomatoid fungal species in decline-impacted loblolly pine stands. Yuan Zeng, Lori Eckhardt, Auburn University.

3. Fluorescing Potential Feeding Deterrents found in Hemlock Woolly Adelgids, *Adelges tsugae* and their Biological Control Agents. Anne Jones¹, Don Mullins¹, Tappey Jones², Scott Salom¹, ¹Dept. of Entomology, Virginia Tech; ²Dept. of Chemistry, Virginia Military Institute.


5. Wood Chemistry and Disease Resistance. Lori Eckhardt¹, Brian Via², Wei Jiang², Auburn University ¹Forest Health Dynamics Lab; ²Forest Products Development Center.

6. EcoDogs: Detection Dogs for Ecological Research. Lori Eckhardt¹, Craig Angle², Todd Steury³, Auburn University ¹Forest Health Dynamics Lab; ²Animal Health and Performance Program, College of Veterinary Medicine; ³School of Forestry and Wildlife Sciences.


8. Gene expression changes in Fraser fir and noble fir related to infestation by the balsam woolly adelgid. Jennifer Emerson¹, John Frampton¹, Ross Whetten¹, Len van Zyl², ¹NC State University, Dept. Forestry & Environ. Resources; ²ArrayXpress, Raleigh, NC.


11. Bugwood Apps. Chuck Bargeron, Joe LaForest, Keith Douce, Center for Invasive Species & Ecosystem Health, University of Georgia, Tifton.
12 Analysis of the Suspended Branch Technique on Hemlock Species (Tsuga spp.) for use in Hemlock Woolly Adelgid (Adelges tsugae) Resistance Testing. Zaidee Powers¹, Robert Jetton¹, Bud Mayfield², Fred Hain¹, ¹ NC State University; ² USDA Forest Service, Southern Research Station, Asheville.

13 Effect of Temperature on Establishment of Sasajiscymnus tsugae, an Introduced Predator of Hemlock Woolly Adelgid in the Great Smoky Mountains National Park. Abdul Hakeem¹, Jerome F. Grant¹, Rusty J. Rhea², Paris L. Lambdin¹, Gregory J. Wiggins¹, Frank A. Hale³, David S. Buckley⁴, and Glenn Taylor⁵, ¹Dept. of Entomology & Plant Pathology, Univ. Tennessee; ²USDA Forest Service, FHP; ³Soil, Plant and Pest Center, Univ. Tennessee, Nashville; ⁴Department of Forestry, Wildlife and Fisheries, Univ. Tennessee; ⁵Great Smoky Mountains National Park, Gatlinburg, TN.

14 Evaluation of defoliation of Chinese privet in shrub survival in field and laboratory experiments Y. Z. Zhang¹, J. L. Hanula³, S. K. Braman³, S. Horn³, J. H. Sun⁴. ¹Univ. Georgia, Athens; ²Univ. Georgia, Griffin; ³USDA Forest Service, SRS, Athens; ⁴Chinese Academy of Sciences, Beijing, China.

15 Rearing, Host Feeding and Biology of Scymnus coniferarum (Coleoptera: Coccinellidae), a Predator of Adelgidae from Western North America. Molly N. Darr¹, Tom J. McAvoy¹, Richard C. McDonald², Michael E. Montgomery³, Mark J. Dalusky¹, Scott M. Salom¹, and Loke T. Kok¹, ¹Dept. of Entomology, Virginia Tech; ²Symbiont Biological Pest Management, Sugar Grove, NC; ³USDA FS, Northern Research Station, Hamden, CT; ⁴Dept. of Entomology, Univ. Georgia, Athens.

16 Persistence of Imidacloprid and Its Metabolites in Eastern Hemlock in the Great Smoky Mountains National Park. Elizabeth P. Benton¹, R. Jesse Webster², Dr. Richard Cowles³, Carla I. Coots¹, Anthony Lagalante⁴, Jerome F. Grant¹, ¹Dept. of Entomology & Plant Pathology, Univ. Tennessee; ²National Park Service, Great Smoky Mountains National Park; ³Dept. of Entomology, Connecticut Agric. Exp. Sta.; ⁴Dept. of Chemistry, Villanova.

17 Abamectin Systemic Tree Injection for Protection of Conifers Against Bark Beetles. Don Grosman¹, William Upton¹, Chris Fettig¹, and Marianne Waindle³. ¹Texas Forest Service; ²US Forest Service-SWRS; ³J.J. Mauget.

18 Potential Systemic Insecticides for Seed Bug Control in Pine Seed Orchards. Don Grosman and William Upton, Texas Forest Service.

19 Establishment and dissemination of Sasajiscymnus tsugae ten years after initial releases in the Great Smoky Mountains National Park. Greg Wiggins¹, Jerome Grant¹, Abdul Hakeem¹, Paris Lambdin¹, Rusty Rhea², and Glenn Taylor³, ¹Dept. of Entomology & Plant Pathology, Univ. Tennessee; ²Forest Health Protection, USDA Forest Service, Asheville; ³Great Smoky Mountains National Park, Gatlinburg.

20 Native and Formosan Subterranean Termite Utilization of Living Trees in Forested Settings. Nathan A. Blount¹, Nathan S. Little¹, Andrew J. Londo², Michael D. Ulyshen³, Alan R. Lax⁴, and John J. Riggins¹, Mississippi State University ¹Dept. of Biochemistry, Molecular Biology, Entomology & Plant Pathology; ²Department of Forestry; ³USDA Forest Service; ⁴USDA Agric. Research Service.


23 Use of a visual cue by the redbay ambrosia beetle during host location. Albert E. Mayfield III USDA Forest Service, Southern Research Station, Asheville.

24 Testing Landscape-scale IPM for Hemlock Woolly Adelgid. James Wilson¹, Albert E. Mayfield III², Tom McAvoy¹, Scott Salom¹, ¹Dept. of Entomology, Virginia Tech; ²USDA Forest Service, Southern Research Station, Asheville.

25 Soil characteristics of loblolly decline sites in Alabama. E.A.Carter¹, N.J. Hess (Ret.)², A.J. Goddard³, L.G. Eckhardt⁴, AND Brian K. Via⁵, ¹USDA Forest Service, Auburn, AL; ²USDA Forest Service FHP, Pineville; ³USDA Forest Service, Montgomery, AL; ⁴School of Forestry, Auburn.

26 Assessing southern pine gene expression response to the venom of Sirex noctilio using biomarkers. John Michael Bordeaux, Jeffrey F. D. Dean, and Kamal J. Gandhi, University of Georgia.

27 Carbon allocation as an indicator of Leptographium resistance in 15 loblolly pine families. Mary Anne S. Sayer¹, Amritpal Singh², Lori G. Eckhardt², Shi-Jean Susana Sung¹, ¹USDA Forest Service, SRS, Pineville; ²Forest Health Cooperative, Forest Health Dynamics Laboratory, Auburn University.

28 Life Cycle of Sasajiscymnus tsugae in Japan. A. Lamb¹, S. Shiyake², M. Montgomery³, and J. Grant¹ ¹Univ. Tennessee; ²Osaka Museum of Natural History, Osaka, Japan; ³Retired, USDA Forest Service.

29 Status of Thousand Cankers Disease on Black Walnut in Tennessee. Jerome F. Grant¹, Mark T. Windham¹, Paris L. Lambdin¹, Greg J. Wiggins¹, and Gray Haun², ¹Dept. of Entomology & Plant Pathology, Univ. Tennessee; ²Tennessee Dept. of Agriculture, Div. Regulatory Services, Nashville.

30 Emerald Ash Borer in Tennessee: Distribution and Biological Control. Jerome F. Grant¹, Steve D. Powell², Kenneth J. Copley³, and Gregory J. Wiggins¹, ¹Dept. of Entomology & Plant Pathology, Univ. Tennessee; ²Tennessee Dept. of Agriculture, Div. Regulatory Services, Nashville; ³USDA APHIS PPQ, Murfreesboro.

31 Morphological Characteristics of European Woodwasp Parasitoid Antennae. Derek J. Robertson¹, Brian T. Sullivan², Will P. Shepard², Jim R. Meeker², Crawford W. Johnson², Kamal J.K. Gandhi¹ ¹University of Georgia; ²USDA Forest Service, Pineville.

32 Laurel Wilt on Avocado: Assessing The Risk of Pruning Tool Transmission of Raffaelea lauricola. Fredrick C. Beckman and Jason A. Smith, School of Forest Resources and Conservation, University of Florida.

33 Host range of a novel Fusarium sp. that causes canker disease of Florida Torreya (Torreya taxifolia). Aaron Trulock and Jason Smith, School of Forest Resources and Conservation, University of Florida.
NOTES