

5th Hemlock Woolly Adelgid Symposium

Renaissance Hotel – Asheville, NC

August 17-19, 2010

Draft Agenda

(July 9, 2010)

Tuesday, August 17, 2010

8:05-8:15 House Keeping: Rusty Rhea

8:15-8:30 Welcome: TBA

BIOLOGICAL CONTROL

Moderator: Rusty Rhea

8:30-8:55 Establishment of the Idaho biotype of *L. nigrinus* in the Northeast. Dave Mausel, UMASS, Amherst, MA

8:55-9:20 Dispersal dynamics and prey impact of *L. nigrinus*. Gina Davis, VA Tech, Blacksburg, VA

9:20-9:45 Identification of *Laricobius* species using morphological characters. Mike Montgomery, Northern Research Station, Hamden, CT

9:45-10:10 Hybridization between introduced *L. nigrinus* and native *L. rubidus*. Nathan Havill, Northern Research Station, Hamden, CT

10:10-10:35 **BREAK**

Moderator: Brad Onken

10:35-11:00 Key cues and factors for improving HWA predator recovery efforts. Dick McDonald, Symbiont Biological Pest Management, Sugar Grove, NC

11:00-11:25 *L. osakensis* phenology, host range studies and status in the U.S.. Ashley Lamb, University of TN, Knoxville, TN and Ligia Cota Vieira, VA Tech, Blacksburg, VA

11:25-11:50 Recovery and establishment of introduced predators of hemlock woolly adelgid in the Southern Appalachians. Jerome F. Grant, Department of Entomology and Plant Pathology, University of TN, Knoxville, TN

- 11:50-12:15 Population dynamics of HWA in New England. Joe Elkinton, UMASS, Amherst, MA
- 12:15-1:15 **LUNCH**
- 1:15-1:40 Rearing and host range studies of *S. camptodromus*. Kelli Hoover, Penn State, State College, PA
- 1:40-2:05 Affects of temperature on the eggs and larvae of *S. camptodromus*. Melody Keena, Northern Research Station, Hamden, CT
- 2:05-2:30 Behavioral observations of *S. coniferarum*, a HWA predator in the Pacific Northwest. Kimberly Wallin, Univ. of VT, Burlington, VT
- 2:30-2:55 Suitability of adelgid species as prey for Pacific Northwest *Leucopis* spp. Sarah Grubin, Kimberly Wallin, and Darrell Ross, Univ. of OR, Corvallis, OR
- 2:55-3:25 **BREAK**
- 3:25-3:50 Packaging and presentation of HWA artificial diets. Allen C. Cohan and Carole Cheah, Insect and Diet Rearing Research, LLC, Raleigh, NC and CT Agric. Experiment Station
- 3:50-4:15 HWA suppression with aerial application of Mycotal fungus in a microfactory formulation, can it work? Scott Costa, Univ. of VT, Burlington, VT
- 4:15-4:40 Status of the HWA Predator Database. Andy Roberts, VA Tech, Blacksburg, VA
- 4:40-5:05 Assessment of introduced predator species against hemlock woolly adelgid on eastern hemlock using whole-tree canopy enclosures. Jerome Grant, University of TN, Knoxville, TN
- 5:30-6:30 **Mixer**

Wednesday, August 18, 2010

CHEMICAL MANAGEMENT

Moderator: Melody Keena

USDA Forest Service, Northern Research Station

- 8:00-8:25 Management of HWA in the Great Smokies. Jesse Webster, National Park Service, Gatlinburg, TN
- 8:25-8:50 More than HWA: Eastern hemlock forest management at the Delaware Water Gap National Recreation Area. Rich Evans, National Park Service, Milford, PA
- 8:50-9:15 Management of HWA in the Pisgah/Nantahala National Forests. Gary Kauffman, USDA Forest Service
- 9:15-9:40 HWA Management in Maine. Allison Kanoti, ME Forest Service, Augusta, ME

- 9:40-10:10 **BREAK**
- 10:10-10:35 Management of HWA in new frontier-Kentucky. TBA
- 10:35-11:00 Impacts of imidacloprid and fertilizers on HWA. Shimat Joseph, Univ. of GA
- 11:00-11:25 Basal bark sprays for managing HWA and EHS. Joe Chamberlin, Valent
- 11:25-11:50 A Combined Treatment Strategy using Imidacloprid to Facilitate Hemlock Recovery in HWA Infested Trees, Joe Docola, Arbojet Inc., Woburn, MA
- 11:50-12:50 **LUNCH**
- 12:50-1:15 Movement of imidacloprid in hemlock. Carla Dilling, University of TN, Knoxville, TN

HEMLOCK CONSERVATION, PRESERVATION AND GENETIC RESISTANCE

Moderator: Rusty Rhea, USDA Forest Service, Asheville, NC

- 1:15-1:40 Hemlock resistance and gene conservation. TBA
- 1:40-2:05 Status of East-wide hemlock conservation effort. Robert Jetton, Camcore, Raleigh, NC
- 2:05-2:30 Host-plant interactions using single cell assessments. Dana Nelson, Southern Research Station, Saucier, MS
- 2:30-3:00 **BREAK**
- 3:00-3:25 Genetic diversity of eastern hemlock. TBA
- 3:25-3:50 National Conservation Plan. Rusty Rhea, USDA Forest Service, Asheville, NC
- 3:50-4:15 Investigating host resistance using scanning electron microscopy. Kelly Oten, Allen Cohen, John Strider and Fred Hain, NC State University, Raleigh, NC
- 4:15-5:30 **POSTER SESSION**

Thursday, August 19, 2010

PHYSIOLOGICAL IMPACTS AND SPREAD OF HWA

Moderator: Rusty Rhea

- 8:00-8:25 Effect of HWA on tree physiology and translocation. TBA

- 8:25-8:50 Effects of HWA and EHS on new growth. Evan Preisser, Univ. of Rhode Island, Kingston, RI
- 8:50-9:15 The role of climate change as it relates to the spread of HWA and fate of eastern hemlock. Kevin Potter, Southern Research Station, Research Triangle Park, NC
- 9:15-9:40 HWA landscape spread patterns, impacts and risks. Talbot Trotter, Northern Research Station, Hamden, CT
- 9:40-10:00 **BREAK**

Biological Control and Rearing Labs Meeting

- 10:00-11:00 Future Direction. Group discussion