

# Combined Hemlock Help Clinic & Facilitator Training Workshop for South Carolina Participants

This is an in-depth course designed for people who want to fully understand the hemlock problem, learn the actual process for treating the trees, and then be of service within the community.

The Facilitator program is similar to the Master Gardener program in that it provides a great deal of good information and practical skills that should be useful to individual property owners to save their own trees **AND** prepares volunteers to find their personal stewardship niche using their knowledge and skills to help others.

**CONTENT** – Starting with an overview of what’s killing the hemlocks, what can be done to save them, and why it’s so important to do so, this class provides complete how-to instruction covering the trees, the insects, assessing infestations, cultural practices, chemical treatments, biological controls, cost considerations, personal and environmental safety. It also prepares volunteers to advise and assist other property owners and to work with the U. S. Forest Service and DNR to save trees on our public lands.

An outline for the training begins on the next page.

**COST** – This training is free for anyone who has joined or renewed their Save Georgia’s Hemlocks membership since last December. It is also free for employees of public land management agencies. For other individuals who are not yet SGH members or who need to renew their membership, we do ask for a tax-deductible \$20 membership donation to help support the work of SGH.

**REGISTRATION – Registration is required.** Contact Carolyn Dawson at 864-638-5889 x 115 or dawson4@clmson.edu and be sure to provide both your phone number and email.

## **WHAT TO BRING –**

\* **Something to take notes with.** We recycle the training guides but will give you a DVD containing the complete guide, a scripted version of the training presentation, and lots more useful materials at the end of class.

\* **Your personal calendar.** Each person completing the course is asked to sign up to help with at least one educational or service event during the year through the Cooperative Extension Service office.

\* **A sack lunch.** We will eat lunch in the classroom around noon. We’ll also provide bottled water and some additional snacks.

\* **Your membership donation** (cash or check) if applicable. You can take care of this at the beginning of class, and we’ll mail you a thank-you / tax receipt letter afterwards.

**WHAT TO WEAR** – Part of the class will be outdoors for a demo of the treatment techniques and some hands-on practice so please dress for the weather, including long-sleeved shirt, long pants, and sturdy footwear with socks.

Professional CEUs are available. Please bring your pesticide applicator’s license if you wish to apply for credits.



## Outline of Hemlock Help Clinic

- A. The role and importance of hemlocks
  - Aesthetic value
  - Ecological value to wildlife and plants
  - Environmental value
  - Economic value to the community
  - Personal value to individuals and families
- B. The invasive insect that's killing them and how it does so
- C. How to recognize the problem and assess the level of infestation
- D. What property owners can do to save their own trees
  - Cultural controls to maintain the health of the trees
  - Chemical treatment to kill the pests
  - Personal and environmental safety
  - Cost of do-it-yourself approach or professional service
- E. The consequences of not taking timely action
- F. How property owners, volunteers, and organizations can help others in their community save hemlocks on private and public land
- G. FREE help available through the SGH Hemlock Help Line, the SGH web site, and our SGH Facilitators

# Outline of Facilitator Training Workshop

## SECTION I: INTRODUCTION

Problem Statement  
The Stakes  
Hemlock Help Program  
Role of Facilitators

## SECTION II: HEMLOCKS

Description – Eastern hemlock  
Description – Carolina hemlock  
Hemlock Structure  
Value of Hemlocks

## SECTION III: HEMLOCK WOOLLY ADELGID

History and Distribution  
Hosts  
Identification  
Impact of HWA on Hemlocks  
Adelgid Lifecycle

## SECTION IV: CULTURAL CONTROLS

General Approach and Recommendations  
Care of Landscape Ornamentals  
Forest Management Practices  
Removing Untreated Trees  
Water Needs of Trees  
Advantages of Cultural Controls  
Disadvantages of Cultural Controls

## SECTION V: CHEMICAL CONTROLS

General Approach and Recommendations  
Overview of Chemical Treatment Process  
Choosing the Trees to Treat  
Determining the Level of Infestation  
Systemic or Non-Systemic Material  
How Systemic Treatment Works  
Imidacloprid or Dinotefuran  
Product Choices  
Timing of Treatment  
Choosing an Application Method  
Generally Not Recommended  
Summary of Treatment Decisions  
Determining Diameter at Breast Height (DBH)  
How to Do Soil Injection with Imidacloprid  
How to Do Soil Drench with Imidacloprid  
Helpful Hints for Soil Application  
How to Do Trunk Spray with Safari 20 SG  
How to Do Foliar Spray  
Expectations Following Treatment  
Special Notes about Chemical Controls  
Advantages of Chemical Controls  
Disadvantages of Chemical Controls

## SECTION VI: BIOLOGICAL CONTROLS

The Challenge  
The Hope  
Hemlock Conservation Areas  
Other Research Efforts  
Information for Property Owners

## SECTION VII: WORKING WITH PROPERTY OWNERS

About Property Owners  
Your Message  
Overview of a Facilitator Visit  
The Flow

## SECTION VIII: ADDITIONAL FACILITATOR INFORMATION

Knowledge of Treatment Materials and Safety  
Parts and Usage of Kioritz Soil Injector  
Product Use and Storage  
Rough Estimate of Product Amount & Cost  
Reliable Estimate of Product Amount & Cost  
Understanding Professional Standards  
Understanding Average Professional Rates  
Dealing with Pest Control Failure  
Record Keeping for Volunteer Facilitators  
Important SGH Web Pages  
Thank You and A Reminder

## APPENDIX A: INTRODUCTORY MATERIALS

Press Release July 1, 2009  
Hemlock Clinic Announcement July 8, 2009  
SGH Hemlock Help Program Description  
SGH Brochure – Hemlock Help for Property Owners  
SGH Brochure Insert – Information for Property Owners  
SGH Hemlock FAQs  
SGH Hemlock Facts & Fiction  
SGH Rack Card  
Web Site Map

## APPENDIX B: TREATMENT INSTRUCTIONS

SGH Introduction to Treating Hemlocks  
SGH Applying Imidacloprid 75 WSP (1.6 oz) by Kioritz Soil Injector  
SGH Applying Imidacloprid 75 WSP (1.6 oz) by Soil Drench  
SGH Imidacloprid Quick Reference Sheet  
SGH Applying Safari 20 SG by Kioritz Soil Injector  
SGH Applying Safari 20 SG by Basal Trunk Spray  
SGH Safari 20 SG Quick Reference Sheet  
Testing & Adjusting Kioritz Soil Injector Calibration

## APPENDIX C: CHEMICAL PUBLICATIONS (SAMPLES)

Product Label for Imidacloprid (Bayer's Merit 75 WSP)  
Material Safety Data Sheet for Imidacloprid (Bayer's Merit 75 WSP)

## APPENDIX D: OTHER EDUCATIONAL & INSTRUCTIONAL MATERIALS

Caring for Your Hemlock Sapling  
Caring for Your Hemlock Seedling  
Chemicals – Contacts – Sources  
Instructions for Planting or Transplanting a Hemlock  
Neighborhood Hemlock Project Planning Guide

## APPENDIX E: FACILITATOR MATERIALS

Facilitator Job Description  
Lead Area Facilitator Job Description  
Checklist – Educational Event  
Checklist – Facilitator Visit  
Checklist – Volunteer Project  
Chemical Calculator  
Maintaining a Kioritz Soil Injector  
Quarterly Activity Log  
Rosellinia Needle Blight  
Spruce Spider Mites  
Elongate Hemlock Scale

## HANDS-ON DEMONSTRATION & PRACTICE

Soil Injection, Soil Drench, and Trunk Spray  
Care and Use of Kioritz Soil Injector

## **SIGN-UP FOR VOLUNTEER ACTIVITIES & INTERESTS**