

# Combined Hemlock Help Clinic & Facilitator Training Workshop

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. Note that the content of the prerequisite Hemlock Help Clinic, which is sometimes presented as a separate class, has been merged into this combined Facilitator Training Workshop.

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 in some aspect of the 20+ educational and charitable service initiatives offered through Save Georgia's Hemlocks.

**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, work with the U. S. Forest Service and Georgia DNR to save trees on our public lands, participate in special hemlock initiatives such as hemlock restoration along trout streams, rescue and raise hemlock saplings, and more.

An outline for the training begins on the next page; handouts and an instructional DVD will be provided during class.

**COST** – This training is free for anyone who has joined or renewed their Save Georgia's Hemlocks membership since last December. For individuals who are not yet 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.** Email [kimberlyraewood@gmail.com](mailto:kimberlyraewood@gmail.com) or call 706-455-2313. Since we may have several classes scheduled at the same time, please be sure to **indicate the date and location** of the class you're registering for and **provide both your phone number and email address.**

## **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 will be asked to sign up to help with at least one educational or service event during the year.
- \* **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 you have not joined Save Georgia's Hemlocks or renewed your membership since last December. 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.



## 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

## **I: INTRODUCTION**

Problem Statement  
The Stakes  
Hemlock Help Program  
Role of Facilitators

## **II: HEMLOCKS**

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

## **III: HEMLOCK WOOLLY ADELGID**

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

## **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

## **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  
How to Do Soil Application with Imidacloprid Tablets  
Helpful Hints for Soil Application  
How to do Foliar Spray with Imidacloprid  
How to Do Trunk Spray with Safari 20 SG  
Special Notes  
Advantages of Chemical Controls  
Disadvantages of Chemical Controls

## **VI: BIOLOGICAL CONTROLS**

The Challenge  
The Hope  
Hemlock Conservation Areas  
Other Research Efforts  
Information for Property Owners  
Advantages of Biological Controls  
Disadvantages of Biological Controls

## **VII: WORKING WITH PROPERTY OWNERS**

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

## **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 Treatment Failure  
Record Keeping for Volunteer Facilitators  
Important SGH Web Site Pages  
Thank You and a Reminder

## **APPENDIX A: INTRODUCTORY MATERIALS**

## **APPENDIX B: TREATMENT INSTRUCTIONS**

## **APPENDIX C: SAMPLE CHEMICAL PUBLICATIONS**

## **APPENDIX D: OTHER EDUCATIONAL & INSTRUCTIONAL MATERIALS**

## **APPENDIX E: FACILITATOR MATERIALS**

## **HANDS-ON DEMONSTRATION & PRACTICE**

Soil Injection, Soil Drench, Soil Application w/Tables, Trunk Spray  
Care & Use of Soil Injector

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