

Pesticide Recertification Conference

Thursday, February 25, 2010

National 4-H Youth Conference Center
7100 Connecticut Avenue
Chevy Chase, MD 20815



*“The speakers at
LCA’s pesticide
recertification
are always the
best in the field.”*

—Steve Sullivan
Horticulturist, Brickman



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There's no better place to learn.

At LCA's 2010 Pesticide Recertification Conference, you'll gain valuable information you can put to use everyday! It's the BEST education in the field!

Take advantage of the BEST opportunity to

- **Recertify in Maryland, D.C. and Virginia**
- **Earn CEU Credits**
 - Landscape Industry Certified/Certified Landscape Technicians
Earn CEUs for re-certification.
 - ISA-Certified Arborists
Call the LCA Office to obtain the number of credits received for this program.

PESTICIDE RECERTIFICATION CATEGORIES

MARYLAND

- III A Ornamental Plant Exterior
- III B Ornamental Interior
- III C Turf
- V Aquatic
- VI Right of Way and Weed
- X Demonstration and Research

VIRGINIA

- 3-A Ornamental Pest Control
- 3-B Turf Pest Control
- 5-A Aquatic Pest Control
- 6 Right of Way Pest Control
- 10 Demonstration & Research Pest Control
- 60 Registered Technician

DISTRICT of COLUMBIA

- 3A: Exterior Ornamental
- 3B: Lawns and Turf
- 3C: Interior Ornamental Plants
- 5B: Aquatics
- 6C: Right of Way Control
- 7F: Industrial Weeds

Schedule-at-a-Glance *(as of November 6, 2009)*

7:00am–4:30pm **Registration/Table Top Exhibits**

8:30am–9:15am **Pesticide Mode of Action: Reducing Risks**

Michael Raupp, Ph.D.—University of Maryland

9:15am–10:00am **Mixing and Loading of Pesticides**

Eric S. Lorenz, M.S.—Penn State University

10:00am–10:45am **Landscape Plant Diseases: A Year in Review**

Karen Rane, Ph.D.—University of Maryland

10:45am–11:30am **Wood-Boring Insects on Trees and Shrubs: Their Biology and Management**

Greg A. Hoover—Penn State University

11:30am–12:15pm **Aquatic Weed Control**

Lloyd Hipkins—Virginia Tech

12:15pm–1:15pm Lunch

1:15pm- 2:15pm **Controlling Troublesome Weeds in Turfgrass**

Jeffrey F. Derr, Ph.D.—Virginia Tech

2:30pm–3:15pm **Tough Love for Tough Insects**

Stanton Gill—University of Maryland Cooperative Extension

3:30pm–4:30pm **Pesticide Regulations Update for 2010**

Ed Crow—Maryland Department of Agriculture

Alvin M. Harris, Sr.—The District of Columbia Department of the Environment

Photographs courtesy of Suzanne Klick, Stanton Gill and the Ohio State Weed Lab Archive

Schedule of Events *(as of November 6, 2009)*

8:30am–9:15am

Pesticide Mode of Action: Reducing Risks

Michael Raupp, Ph.D.—University of Maryland



Throughout history, humans have struggled against pests—gypsy moths eating our oaks, scales sucking our maples, mites stippling our hemlocks. As older classes of insecticides such as organochlorines and organophosphates were phased out, newer classes of insecticides such as the neonicotinoids replaced them. Come and learn the major classes of insecticides and miticides, discover how they kill pests, and learn which ones are most compatible with IPM and Plant Health Care Programs. Insecticides that have earned EPA's "reduced risk" status will be featured and discussed.

Dr. Michael Raupp has published more than 150 articles and presented more than 600 invitational talks in the United States and abroad on the ecology and management of insect and mite pests in landscapes. He has received 5 regional or national awards for excellence in extension including the Secretary of Agriculture's Award for Environmental Protection. He is a regular guest on radio and television and conducts workshops, short courses, and conferences for members of the green industries. He works closely with arborists, urban foresters, and the public to develop effective and environmentally acceptable methods of pest management.

9:15am–10:00am

Mixing and Loading of Pesticides

Eric S. Lorenz, M.S.—Penn State University



This presentation will review the safety procedures to follow while mixing and loading pesticides. There will also be a review of site selection, conditions, load pads, water protection, cleaning equipment and rinsate. The presentation will also cover the correct use of personal protection equipment. *Eric Lorenz is the Pesticide Education Program's coordinator at Penn State University. He coordinates the development of core and category test preparation materials, and provides pesticide safety training for certification and recertification. Eric also develops and presents updated training seminars for pesticide applicators, technical service employees, faculty, and extension educators.*

10:00am–10:45am

Landscape Plant Diseases: A Year in Review

Karen Rane, Ph.D.—University of Maryland



The weather in the spring of 2009 set the stage for an explosion of diseases in the landscape. Learn diagnostic clues and management tips for some common and not-so-common plant diseases affecting trees and shrubs last year, and see what diseases to expect this coming year. *Dr. Karen Rane is the plant pathologist and Director of the University of Maryland Plant Diagnostic Laboratory. She has authored numerous articles and conducted workshops on ornamental plant disease diagnostics and management for the green industry. She also serves as the Maryland representative to the National Plant Diagnostic Network, an organization whose mission is to provide early detection of invasive plant pests and diseases that threaten U.S. agriculture and the environment.*

10:45am–11:30am

Wood-Boring Insects on Trees and Shrubs: Their Biology and Management

Greg A. Hoover—Penn State University



This lecture will cover the key wood-boring insect pests that attack trees and shrubs in landscapes. Accurate identification of life stages of these pests as well as their biology and effective management strategies will be discussed. Where indicated, natural enemies that reduce populations of these pests will be addressed. *Gregory A. Hoover, ornamental extension entomologist, has been responsible for the woody ornamental entomology extension program in the Department of Entomology at the Pennsylvania State University for the past 21 years. He serves as a member of the University Tree Commission at the University Park campus, has taught many independent study students in ornamental and forest entomology, provides diagnosis of insect and mite pests attacking trees and shrubs, and teaches the course Arthropod Pests of Woody Ornamentals. Greg provides guest lectures in undergraduate and graduate courses in the departments of entomology, horticulture, agricultural and biological engineering, and the School of Forest Resources. He has presented over 800 extension programs, invited guest lectures, short courses, and workshops in Pennsylvania and surrounding northeastern states during his tenure at the Pennsylvania State University. Greg has studied Ephemeroptera (mayflies) for most of his professional career. He coauthored the book, Great Rivers/Great Hatches. Prior to coming to Penn State, he was a forest entomologist in the Pennsylvania Bureau of Forestry for 7 years.*

11:30am–12:15pm

Aquatic Weed Control

Lloyd Hipkins—Virginia Tech



This presentation will cover new products on the horizon. It will cover the need to properly identify target plant species prior to product selection and application, as well as the latest information on the Clean Water Act/NPDES situation and how it will affect applicators in Maryland and surrounding states. *Lloyd Hipkins was awarded an A.B. in Biology from Hood College after serving time in the Army and working at a variety of jobs. While a student, he worked with Dr. John Sterrett at the USDA ARS laboratory at Fort Detrick. With encouragement from Dr. Sterrett, he began graduate school at Virginia Polytechnic Institute and State University under the guidance of Dr. Bill Chappell. His Masters thesis was entitled "Controlling the Spread of Multiflora Rose in Southwest Virginia." He is presently employed as a Senior Research Associate/ Extension Weed Specialist (45% research/55% extension) in the Department of Plant Pathology, Physiology and Weed Science at Virginia Tech. He conducts research and has Extension outreach programs dealing with industrial vegetation management and invasive plants in aquatic ecosystems.*

1:15pm–2:15pm

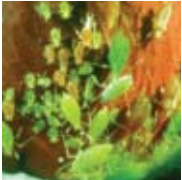
Controlling Troublesome Weeds in Turfgrass

Jeffrey F. Derr, Ph.D.—Virginia Tech



This session will focus on the latest research and best practices for controlling difficult weeds in turfgrass. In addition to learning more about the management of yellow nutsedge, wild violet, crabgrass, and other challenging weeds, new products for weed control will also be discussed. *Dr. Jeff Derr is employed by Virginia Tech as an Extension Weed Scientist for Horticultural Crops. He conducts research on weed management in ornamentals, turf, and fruit crops, investigating both chemical and nonchemical means of weed control. He disseminates that information through a state-wide extension program. Jeff received his Bachelor of Science in Horticulture from Penn State, and his Masters of Science and Ph.D. in Weed Science from North Carolina State University. He is located at Virginia Tech's research station in Virginia Beach. Dr. Derr is currently the President-elect of the Weed Science Society of America. He is a Past-President of the Northeastern Weed Science Society.*

2:30pm–3:15pm



Tough Love for Tough Insects

Stanton Gill—University of Maryland Cooperative Extension

University of Maryland Extension faculty conducted trials in 2008 and 2009 using systemic insecticides for control of sucking insects. In 2009, they did trials to evaluate new insect growth regulators for key scale insects. Stanton will share the results from these field trials and also discuss the major insects they saw in 2009. *Stanton Gill is an Extension Specialist in IPM for Greenhouse and Nursery Management, stationed at the Central Maryland Research and Education Center, University of Maryland, where his appointment is 100% extension. Stanton is also a professor with the Montgomery College Landscape Technology Program where he teaches Integrated Pest Management, Greenhouse Management and Nursery Management classes. His research program in Maryland is in integrated pest management methods for greenhouse and nursery managers. He is currently investigating practical biological methods for controlling fungus gnats and shore flies in bedding plant production greenhouses and working on a hot water immersion system to treat unrooted cuttings to kill mites and insects. Stanton has authored three books on greenhouse and perennial insect control and one CD on the diagnosis of insect and mite problems on herbaceous perennials.*

3:30pm–4:30pm



Pesticide Regulations Update for 2010

Ed Crow—Maryland Department of Agriculture

Alvin M. Harris, Sr.—The District of Columbia Department of the Environment

In this session, participants will receive updates on new/proposed state and federal pesticide regulations.

Ed Crow has been employed with the Maryland Department of Agriculture, Pesticide Regulation Section since October 1981. Since 1989, Ed has been in charge of Maryland's pesticide applicator Licensing, Certification and Training programs, the educational and public outreach programs, and the development of the U.S. Environmental Protection Agency's (EPA) pesticide grant. In addition, he has also been responsible for coordinating Maryland's Urban IPM program with the primary emphasis placed on Maryland public schools. Ed has also been involved with EPA's Certification & Training Assessment Group (CTAG) and has participated in special training sessions for EPA staff regarding licensing, certification and how pesticides are regulated on the state level.

Alvin Harris has been employed with the District of Columbia Pesticide Program for the since January 1994. Prior to this, he worked in the area of plant and animal quarantine; gypsy moth rearing for the production of nuclear polyhedrosis virus; and landscape Integrated Pest Management. Alvin received a M.Sc. degree in Applied Entomology from the University of NewCastle upon Tyne, NewCastle upon Tyne, England in 1990.

**Don't miss this opportunity for the BEST education in the field!
REGISTER TODAY!**

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Registration Form

2010 LCA Member Yes No

Full Name _____

Nickname for Badge _____

Firm _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

Email _____

Application Permit # _____ MD DC VA

Special Accommodations

- Vegetarian Other _____
 Require special accommodations (attach written description)

SAVE! Register & Pay By February 12

Registration Fees

By Friday, February 12

- Members \$75
 Non-members \$100

After Friday, February 12

- Members \$100
 Non-members \$125

Register for this event by

Online: <http://www.lcamddcva.org>

Mail: 9707 Key West Avenue, Suite 100
Rockville, MD 20850

Phone: 301-948-0810 **Fax:** 301-990-9771

PREPAYMENT IS REQUIRED FOR ADVANCED REGISTRATION

Refunds / Cancellations

- Written cancellations received prior to February 12, 2010 are subject to a 15% cancellation charge.
- Substitutions will be accepted.
- No refunds will be given after February 12, 2010.
- No refunds will be given due to inclement weather.

Payment Options

Amount Enclosed \$ _____

- Check enclosed made payable to LCA MasterCard VISA

Card # _____

Exp. Date (mm/dd/yy) _____ Security Code _____

Name on Card _____

Signature _____