



In Season

Virginia Cooperative Extension Master Gardeners and the Virginia Tech Department of Horticulture

Spring 2011 Special Master Gardener College Edition

Master Gardener College 2011

- Featuring Land Care Steward Training
- June 22-26, 2011, in Blacksburg, VA



General Information

Scholarships:

The VMGA is sponsoring six \$100 scholarships for Master Gardener College. You can get additional information and a nomination form at www.vmganet.net. Some local units offer other scholarship opportunities as well. Ask your local coordinator or extension agent for additional information. There is also a special, one-time, scholarship in memory of Virginia Craig, former Roanoke MG.

Registration:

Get registration information from your local MG coordinator or agent. This year you will be able to register by mail, telephone, fax, or on the internet. Registration is open to active MGs. Contact your local MG coordinator or agent for details, as registration will open in the next few days.

Housing:

We will again be in the dorms, but local hotel information is also available on the website (www.hort.vt.edu/mastergardener). Go to the website above for information regarding on-campus housing, or contact your local agent or coordinator.

Meals:

If you are staying in the dorms, your meal ticket is included with your housing reservations. If you are staying off campus, you can either purchase meals individually with cash only (credit cards are not accepted) or purchase a meal ticket for the entire conference. Please see the Master Gardener website for instructions on meal plans and enjoy the company of other Master Gardeners during meal time.

*Please note that the enclosed schedule for MGC 2011 is tentative and subject to change.

■ During Your Stay ■

Telephones:

Local calls can be placed and any type of calls may be received by phones in the residence hall rooms. To make long distance or 800 number calls, please use a campus pay phone. Please note: Voicemail is not available.

Messages:

Your friends and family can attempt to leave important messages by calling the 24-hour service desk at the residence hall (540) 231-9811 or the office of the State Master Gardener Coordinator (540) 231-2714. Please be sure that they clearly state their name, your name, the name of the conference, and the nature of the call. Understand that these messages may not be received in a timely manner, especially if the Coordinator's number is used.

Residence Halls:

Repairs

If something is not working properly in your room, please call the 24-hour service desk at (540) 231-9811. Tell them what conference you are with, the room you are staying in, and the specific problem you are having.

Lockouts, Security

For lockouts, please contact the aide at the Residence Hall desk; however, if they cannot be contacted, call the 24-hour service desk at (540) 231-9811. Please leave a note on the residence hall desk letting them know the problem and the action you have taken to help avoid duplicate requests. For security reasons, all outside doors will be locked between 11 pm and 6 am, although your meal card will open any of the exterior doors.

Class Selections:

Switching schedules is not advised unless you trade spots with someone. All the classes with limited enrollment were filled by pre-registrations, and there will not be enough materials for unregistered attendees. Please be considerate to your peers and do not "crash" a class.

Meals:

Meals will be in the D2 Dining Center. Hours of service are:

Breakfast: 7:00 am to 9:30 am

Lunch: 11:00 am to 1:30 pm

Dinner: 5:00 pm to 6:30 pm

If you are staying off campus, you may purchase a meal plan from conference and guest services or you may purchase individual meals in the dining center with cash or check only.

Meal Cards:

Meal cards for on-campus attendees are located in the envelope with the keys. The card also functions as a key to the building when it is locked. Unless you have registered for additional lodging or meals, your first meal in the dining hall is dinner on Thursday, June 23. Your last meal in the dining hall is breakfast on Sunday, June 26.

Do not place this card next to others that have magnetic strips as this may cause it to demagnetize. If you lose or demagnetize your card, go to the 24-hour service desk in the residence hall to get your replacement. There is a \$5 charge for lost cards, but no charge if it demagnetizes.

Medical:

Montgomery Regional Hospital 24-hour Emergency Services: (540) 953-5122. For emergencies at any time, call 911.

Checkout:

Checkout will be at the main desk of New Hall West. Please bring your linens down when you check out and make sure the front desk staff knows who the linens belonged to. You will be charged for unreturned keys and linens!

Wednesday, June 22, 2011

Land Care Steward Training

9:00 am-5:00 pm

Get an overview of the Land Care Steward Program and the long term expectations. Also, hear from a variety of experts on selected topics from the Land Care Steward training module. You must be authorized by your local Extension agent to enroll in this specialized training. There is an additional \$100 fee for this class. *Prior permission from local agent or coordinator required to enroll.

Leadership Development Training

1:00 pm-5:00 pm

Policy Overview for Newcomers. All new Extension agents, coordinators (paid or volunteer) or unit or association leaders not familiar with the basic policies of the VCE MG program should attend this session. This information serves as the foundation for how your local MG unit operates and functions within the context of Virginia Cooperative Extension. Bring your office copy of the Coordinator Manual with you. Electronic copies will be available to those of you who have not yet received one. Be prepared to take notes and ask questions!

Thursday, June 23, 2011

Pre-Conference Tours & Workshops

Full Day-- 9:30am-5:00pm

VT Sustainability: Kentland Student Garden, PME Composting. \$20. Limit of 20. Learn about how Virginia Tech's Dining Services is working to promote a sustainable food system through programs such as the Dining Garden, a sustainable food venue, local food procurement, and composting. Enjoy lunch at D2 followed by a presentation and discussion with Sustainability Coordinator, Rachael Budowle.

Morning Tours and Workshops-- 9:00am-12:00pm

Elissa Steeves' Garden. \$10. Limit of 30.

Garden Tours with Delbert. \$15. Limit of 30/trip. Join Mr. Jones for a tour of some of the most spectacular private gardens in the New River Valley. Transportation provided.

Let's Make Plants. Lisa Sanderson. \$10. Limit of 30. Do you want to root that favorite plant of yours (or your neighbors)? Take this class if you would like to learn how to "make more plants" by rooting your cuttings more successfully! Different methods of cutting propagation will be addressed. Be prepared to get your hands a little dirty for some hands-on practice.

Thursday, June 23, 2011

9:45am-11:00am

National Weather Service. \$10. Limit of 20. Ever wonder about where those extreme weather advisories come from or who decides to release them? Meet some of the folks responsible for Extreme Weather Advisories and see the facilities in which they work.

10:00am-12:00pm

“Y” Community Garden, Solar House. \$10. Limit of 20. Since it began in 1977, the ‘Y’ Community Garden has grown throughout the years, now with more than 100 plots. Take a tour of this garden and the nearby Solar Greenhouse, which uses a Subterranean Heating and Cooling System to store energy from the sun.

Insect ID Walk. Free. Get a campus walk identifying insects of concern as well as beneficials. This activity will occur rain or shine and requires a great deal of walking. Wear suitable clothing and appropriate footwear.

Afternoon Tours and Workshops-- 1:00pm-3:00pm

VT Labs: Soils, Insect ID, Nematode, Plant Diagnostics. Free. Ever wonder who processes soil, insect, or nematode samples sent to the on-campus labs? You’ll have an opportunity to meet the folks who process samples and see first hand the facilities where your samples are analyzed.

1:00pm-4:00pm

Garden Tours with Delbert. \$15. Limit of 30/trip. Join Mr. Jones for a tour of some of the most spectacular private gardens in the New River Valley. Transportation provided.

Plant Breeding. Niemiera & Lipsey. \$35. Limit of 30. Plant breeding is an exciting combination of science and art where relatively simple techniques can produce new plant varieties. Hobbyist plant breeders with a little training in botany, horticulture and plant genetics are able to make significant contributions to the expansion and improvement of ornamentals. This workshop will provide participants with the basic knowledge necessary to successfully select and improve desired traits of ornamental plants. This three-hour workshop will start with classroom instruction on plant selection, the fundamentals of plant reproduction, and general breeding techniques followed by some hands-on cross pollination work.

Ikebana. Alan McDaniel. \$15. Limit of 27. Come learn the basics and theories of Ikebana, the Japanese art of flower arrangement, also known as kado (“the way of flowers”). Ikebana, more than simply arranging flowers, is a disciplined art form which brings together nature and humanity.

1:00pm-5:00pm

Urban Hort Center. \$10. Limit of 20. Receive a guided tour by VT researchers as they discuss the exciting work they have in progress at the Urban Hort Center. Learn about WoodGro, a new cutting edge growing media that may revolutionize the container plant industry. Get a glimpse of some new plants being developed through the Beautiful Gardens program before they are released to the public. Topics in Urban Forestry and Floriculture will also be discussed.

Schedule of Events



Thursday, June 23, 2011

1:00pm-5:00pm

Bonsai – Higo Garden. \$35. Limit of 14. Learn the ancient art of bonsai with Jeri Pike of Higo Gardens. Registration cost includes tree, pot, supplies, and use of tools. Participants will work with either Korean boxwood or a semi-evergreen Chinese elm.

Community Gardening in Roanoke. \$20. Limit of 20. Join a local VCE MG as your tour guide and a community organizer from the city of Roanoke as you explore three different community gardens. You'll get to see first hand the variety of community garden projects in action including one focused on teens and one at the Virginia Western Community College Community Arboretum.

Firewise Tour. \$20. Take a first-hand look at real-life firewise management examples. Visit local homeowners' private property to see the management strategies they have adopted to protect themselves from wildland fires. Learn about an incentive plan funded by the VDOF to assist homeowners in 'firewising' their own landscape and property.

Thursday Evening Events

6:00pm-7:00pm. **Gardens of the Riviera.** Robert McDuffie.

7:00pm-8:00pm. **Milestone Awards Ceremony.**

8:00pm-10:00pm. **Search for Excellence and Brag Night Poster Session.**

Friday, June 24, 2011

Keynote Sessions

9:00 am **Brown Marmorated Stink Bug Update.** Eric Day.

9:30 am **Firewise Landscaping.** Fred Turck.

11:00 am **Exotic Invasive Plant Species Invading our Forests.** James Miller.

Concurrent Sessions

1:30 pm-3:00 pm *Indicates a Land Care Steward elective

Food Preservation. Renee Boyer. This presentation will introduce attendees to the basic principles behind preserving foods in the home, including the conditions needed for microorganisms on foods to grow causing spoilage or illness. It will elaborate on how, if these conditions are controlled or changed, then foods can be safely preserved for extended periods of time. The presentation will discuss how to safely can, freeze, and dry foods at home to extend their shelf life.

Friday, June 24, 2011

Beating the Heat with Warm Season Lawns. Mike Goatley. Virginia's transition zone climate means that we can grow just about any turfgrass in this state, just not very well! Warm-season grasses are not a guarantee for success, but in regions where summer extremes in heat and drought wreak havoc on cool-season lawns, warm-season grasses are often better adapted options for lawns. This presentation will describe the strengths and weaknesses of the predominant warm-season turfgrasses used in Virginia, where they best fit, and will detail establishment and initial maintenance tips.

Budding & Grafting. Barry Robinson & Alan McDaniel. (Part 1 of 2). Learn and apply the basic techniques of grafting and budding. Take home a grafted fruit tree and the renowned potato plant! \$15 fee. Limit of 20.

***Before the Storm. Adam Braaten.** Beyond selecting the right tree, learn some basic tree management strategies to help you mitigate storm damage before it hits. This is a continuing education opportunity for land care stewards as well as tree stewards.

Micropropagation. Suzanne Piovano. Learn about tissue culture techniques and micropropagate a few plants to take home. Take home a couple of bonus plants too! \$15 fee. Limit of 12.

***Beyond the Disease Pyramid. Adria Bordas.** Ever wonder what plant pathogenic Fungi and Bacteria are most common in Virginia. Perhaps you want to know more about the life cycle of the most common plant pathogens in Virginia. In this class, Adria will describe the most commonly found plant diseases, their life cycles and truly the beauty in plant diseases. The goal is to acquaint the participant with the most common diseases, their life cycle, and how to manage the problems.

Creating a "Buzz" and Making News. Lori Greiner. Would you like increase the awareness of Master Gardeners? Attract more volunteers and get more people to your programs? Come learn how to connect with your audience through print, web, and social media. We'll cover basic marketing techniques, building relationships with the media, and building community through social media.

Greenhouse Management for the Hobby Greenhouse. Joyce Lafimer. This presentation will provide an overview of the principles of good greenhouse management. Good environmental management reduces insect and disease pressure while improving the quality and health of your plants. Good nutritional and irrigation management improves plant growth, health, and quality. Improve your plants by learning the principles.

Virginia Farm-to-School. Matt Benson. Farm-to-school connects schools (K-12) and local farms with the objectives of serving healthy meals in school cafeterias, improving student nutrition, providing agriculture, health and nutrition education opportunities, and supporting local and regional farmers. This session will discuss the movement of connecting more school cafeterias with local and regional farmers and share information about farm-to-school efforts taking place across Virginia. Tips, tricks, and best practices will be described showing how you can be involved with farm-to-school in your local community. This session will also provide an overview of Virginia school gardens and detail how Master Gardeners can use experientially-based education methods to further connect Virginia's children and youth to local agriculture and food.

Schedule of Events



Friday, June 24, 2011

Schedule of Events

What Every Master Gardener Needs to Know About Using Pesticides. Karen Carter.

As Extension Master Gardeners you are often called upon to make recommendations to citizens about controlling pests. Of course, we want people to consider alternatives to chemical products, but when chemicals are part of the picture, what should you tell people about choosing the most “bio-rational” product? What are the safety considerations for a particular active ingredient and formulation? How can you find out what products, formulations, and brand names are registered for use in Virginia? What advice can you give regarding working with a professional applicator? What advice should you give clients about calibrating the applications they do themselves? This session will help answer these questions and more, and provide you useful resources to assist the citizens who look to you for good advice.

***Sustainable Gardening Practices. Laurie Fox.** Session description available soon.

***Weed Ecology & Biology. Amber Vallofton.** Weeds have certain characteristics that make them far more than simply “plants out of place!” This presentation will give you an appreciation for weed biology and ecology to better understand effective control strategies. A portion of the talk will focus on the increasing frequency of plant injury caused by herbicide residues in manures, grass clippings, and compost.

3:30 pm-5:00 pm

***Persistent Herbicides in Compost. Greg Evanylo.** Amending turf and landscape soils with compost is generally considered a good practice, and grass clippings and animal manures are two items that are often composted. However, knowing something about the herbicides applied to the grass the clippings came from or the hay that the animals ate can impact your choice of using the compost. This presentation will discuss the issue of herbicide carryover and offer guidelines for the use of the pyridine carboxylic acid herbicides and precautions to take when using compost that may contain their residues.

Budding & Grafting. Barry Robinson & Alan McDaniel. (Part 2 of 2). Continued.

Water-Wise Plant Selection. Sandra Reichert. Struggling with water woes in your landscape? Learn about the seven principles of water-wise gardening and how to work with nature, not against it, to create a pleasing environment while reducing the need for additional water usage in the landscape. Discover how the proper selection and placement of plants for your site will reduce maintenance and expenses once your garden is established.

Troubleshooting for the Hobby Greenhouse. Joyce Latimer. This presentation will address troubleshooting practices related to environmental control and cultural practices. When conditions are out of balance in the greenhouse, plants are subjected to stress. Some of these stresses are chronic in nature and can be “cured” if recognized in time. Others are acute stresses or “events” that rapidly affect plant health in the greenhouse. Learn how to address the cause of the stress.

Got Conifers? Alex Niemiera. Learn about an array of conifer species and cultivars that will grace your garden or landscape. This presentation will emphasize underutilized conifers that offer striking variations in size, form, color, and texture.

Friday, June 24, 2011

Been Saving Those Plastic Nursery Pots? Reusing and Recycling Nursery Plastics in Virginia. John Ignosh & Lisa Sanderson. The Virginia nursery and greenhouse industry is one of the fastest growing sectors of agricultural production in the Commonwealth. This growth leads to consumers purchasing plants in plastic nursery containers. Landfills become filled with this plastic and many gardeners have been collecting their nursery plastic for years waiting for this opportunity. Learn what you can do as a Master Gardener in your community to recycle plastic nursery pots and divert them from the landfills!

Micropropagation. Suzanne Piovano. Learn about tissue culture techniques and micropropagate a few plants to take home. You will get to take home a couple of bonus plants too! \$15 fee. Limit of 12.

Site Evaluation. Laurie Fox. Session description available soon.

Home Hydroponics. Chris Mullins. In this presentation you will learn about hydroponics, commercial application of hydroponic techniques, and home hydroponics systems. Resources for supplies and educational material will be provided. You will also engage in planting and set up of various home hydroponic units.

Organic Sustainable Vegetable Gardening. Paul Gibson. Growing our own food, using nature as a guide, and incorporating sustainable practices is good for our bodies and for the earth. We will discuss growing good garden soil, fertility and tillage, planning the garden, and using organic and sustainable practices such as composting, cover crops, crop rotation, companion planting, farm-scaping, and seed saving to develop productive individual and family gardens.

Marie Butler on Grasses: Ornamentsally Speaking. Marie Butler. Let ornamental grasses tickle your fancy! Ornamental grasses add color, texture, movement and more to our gardens. The animals of the Virginia Zoo share their design opinions while Marie adds some culture. It's time to think beyond the pompous pampas!

***Wildlife Damage – Who You Gonna' Call? Frank Reilly.** Diagnosing and responding to damage in the home & landscape. Don't be a victim. Learn how to tell what is doing the damage and how to adapt, respond, or retreat with respectability.

Saturday, June 25, 2011

Keynote Sessions

9:30 am **The Fate of Fertilizer & the Chesapeake Bay.** Panel.

11:00 am **Eliminating Murder: How Not to Kill Plants.** Bryce Lane.

Schedule of Events



Saturday, June 25, 2011

Schedule of Events

Concurrent Sessions

1:30 pm-3:00 pm

*Indicates a Land Care Steward elective

Interpreting Soil Test Reports. Steve Heckendorn. Session description available soon.

Insects. Dan Nortman. Confused by the thousands of insects in your landscape and whether they are “good” or “bad?” Join Dan in a discussion of good bugs and bad bugs, how to identify important and common species in Virginia and how to attract more good bugs into your yard.

***Abiotic Stressors/Nutrient Deficiencies. Dave Orcutt. (Part 1 of 2).** This presentation will provide an introduction to abiotic stress, plant nutrient requirements, and diagnosis of nutrient deficiencies. You will also learn about plant strategies for surviving and coping with drought and heat stress.

***Plant Diagnostics. Mike Likins. (Part 1 of 2).** This presentation will take you through the process of proper plant diagnostics. Learn how to determine if a plant is being affected by a fungus, bacteria, or virus or if it is simply showing symptoms of an abiotic stressor.

The Lazy Gardener. Mary Stickley. We all want to have beautiful gardens. But with work, families, and all our other interests, who has time? In this session, learn tips and techniques for reducing the time and labor so that you can have a low maintenance garden. Have that gorgeous garden with a lot less effort.

Hardscaping. Paul Chumbley. Come see the various projects, samples of the materials, and tools used for each project at the Hahn Horticulture Gardens. Learn why hardscapes fail and see some examples.

Extension Programming -- Putting Your Steward Training to Work. Pat Reilly. (Part 1 of 2). Have you ever had a great idea for a program but don't know how to get started? Or do you get overwhelmed with all the possibilities for Master Gardener activities and don't know where to put your effort? Does your Master Gardener program need to be “pruned” a bit? This workshop will provide a four-part program model, four approaches to Extension education, and a tool to prioritize community needs. We will share program needs with each other and examples of how we have determined which activities to offer. We will also discuss how to streamline current educational activities to better meet local needs and survive in a busy world! Bring your program triumphs and woes to share with each other.

Horticulture Therapy. Helen Lake. Session description available soon.

Lumenhaus – From Design to International Accolades. Chip Clark. Come learn about Lumenhaus, a high-performance, highly-responsive, net-zero energy house. Designed and built by Virginia Tech students through a collaborative and cross-disciplinary effort, it employs modern technologies as well as revisits and updates older strategies to create a responsive energy-efficient home that increases qualities of life and everyday patterns of living.

Saturday, June 25, 2011

***Selecting Plants for Your Landscape, Should I Go Native? David Yost.** David has spent the past 25 years working with sick, dying, or dead plants. Come hear what plants the “Garden Curmudgeon” recommends for reliable performance, including both native and non-native species.

Medicinal Herbs. Kirsten Buhls. Session description available soon.

Whispers of Whimsy or Yells of Yard Art? Marie Butler. Yes, Virginia, there IS fun in the garden. Look beyond the boxwoods. There’s mischief to be managed, hearts to be opened, and imaginations to be inspired!

3:30 pm-5:00 pm

Insects. Dan Nortman. Confused by the thousands of insects in your landscape and whether they are “good” or “bad?” Join Dan in a discussion of good bugs and bad bugs, how to identify important and common species in Virginia and how to attract more good bugs into your yard.

***Abiotic Stressors/Nutrient Deficiencies. Dave Orcutt. (Part 2 of 2).** In part 2 we will examine the impact and response of plants to flooding, chilling, and freezing stress. This presentation will also cover the effects of light quality and quantity on plant growth and development and the significance of air pollutants on plant growth and production.

***Plant Diagnostics. Mike Likins. (Part 2 of 2).** Continued.

Extension Programming--Putting Your Steward Training to Work. Pat Reilly. (Part 2 of 2). Continued.

Food Safety for the Home Gardener. Christy Brennan. The increased interest in home gardening and move to support local agricultural has created loads of opportunities for MGs to educate consumers on practices to assure the safety of fruits and vegetables. A few years ago, MGs were selected as part of a food safety project by a former VA Tech graduate student, and the project and results are a major part of this program. The simple changes in both agricultural and kitchen practices will equip MGs with information to help assure the safety of our food supply.

***Teaching Children Composting the Old Fashioned Way...with red wigglers! Dawn Lerch.** Composting is an important part of nature’s recycling and the benefits of using the final product – humus – are many. But who and what are involved in this process? This presentation will investigate the critters of the compost pile. We will take an up close look at the life of a worm as well as how to care for a worm bin/vermicomposting. Come and catch the “wow” of vermicomposting and teach a kid how to do it too. Your fee for this session provides you with a copy of Mary Applehof’s book *Worms Eat My Garbage*, a coir fiber brick for bedding, and your starter supply of red wigglers!

Water Steward Update. Frank Reilly. Advance Master Gardener Update. You must already be one to attend! Learn the latest tools and trends for Water Stewards. Salt tolerance. Rain Garden updates, Invasive Species and a few funding tricks. We will spend some of the time comparing notes from our successful projects around the state.

Schedule of Events



Saturday, June 25, 2011

Beekeeping. Jim Revell. What's that buzzzzzz in my backyard? Learn about the joy in watching and experience the world of bees up close and personally, not to mention the benefits from having them in your garden.

***Signs, Symptoms, and Clues to Diagnosing Plant Problems. David Yost.** This interactive session will emphasize following a systematic approach to diagnosing plant problems. Take this opportunity to hone your diagnostic skills so that you will know what questions to ask and how to help your clients the next time you are asked, what's wrong with this plant?

***Gardening in Limited Spaces: Big Ideas for Small Trees. Bryce Lane.** With the average home property size shrinking and the Baby Boomer Generation getting older, the need for large, good ole fashion shade trees is decreasing. Small to medium size ornamental trees are becoming more and more popular, and greater in demand. This presentation will focus on the basic principles of selecting, planting, and caring for small trees in the home garden.

Considerations for Putting in a School Garden. Barbara Thomas. Have you been itching to teach the future generation about growing vegetables? Ever consider starting a school garden? Come hear about an elementary school garden that's been around for over ten years and is still going strong. Start-up strategies and curriculum ideas will be presented as well as hands-on experiments for participants.

Sunday, June 26, 2011

Keynote Sessions

9:00 am

To Be Determined. Holly Scoggins.

10:30 am

Landscape Rehab: A Twelve Step Program to a Sustainable Landscape. Linda Chalker-Scott.

Picnic, Plant Swap, Plant Sale

12:00 pm-2:00 pm

Hahn Hort Gardens.

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The Virginia Master Gardener Leadership Development Newsletter goes to all active VCE Master Gardeners in Virginia. It is published by the Department of Horticulture, Virginia Cooperative Extension, Virginia Polytechnic Institute and State University, Mail Code 0327, Blacksburg, VA 24061.

If you are a person with a disability and desire assistance or accommodation, please call David D. Close, 540-231-2714, during business hours of 8 a.m. and 5 p.m. The VCE Master Gardener seal and title are trademarks of the VCE Master Gardener Program.

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