



The Virginia
Horticultural
Foundation



**Mid-Atlantic
Horticulture
Short Course**

Jan. 16 - 20

2017

The Founders Inn & Spa
Virginia Beach, VA

2017 Mid-Atlantic Horticulture Short Course

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www.vahort.org
www.mahsc.org

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Extras at MAHSC

Keynote Speaker

Brie Arthur, *Garden Communicator*

Originally from southeastern Michigan, Brie Arthur studied Landscape Design and Horticulture at Purdue University. As a professional garden industry communicator Brie is leading the national suburban Foodscape movement; a model of community development that incorporates sustainable, local food production. She is a correspondent on the PBS television show Growing A Greener World. She collaborates with professionals across the US to build Foodscapes in elementary schools through the non-profit, Sustainable Heroes and consults with landscape contractors to educate them on Foodscape design and sustainable land management.



NEW Growing Gourmet & Medicinal Mushrooms workshop

Participants will learn to inoculate a log with mushroom spawn to grow their own gourmet mushrooms.

Move Night at the Jefferson

Matt Damon stars in this drama about an astronaut accidentally left behind on a manned mission to Mars. Left on his own to survive, Damon's character, Mark Watney, a botanist as well as an astronaut, searches for a way to contact Earth. In his efforts to survive, he relies on ingenuity, creativity, and a little bit of gardening. FREE

NEW Designing a Hardy Winter Container workshop

Create beautiful, long-lasting containers and learn which plants will make a statement in the cold winter months, how to create height, and what elements can add color to winter plantings.

Lunch and Learns

Topics appeal to all green industry professionals—see daily schedules. Registration includes a chefmade lunch (\$40 each day.)

Product Showcases

Visit these 30 minute demos and product launches for the Green Industry. Daily at 12:30, 12:45 and 1:00pm these are in the Virginia & Jefferson rooms and are brought to you by our sponsors.

Silent Auction

Silent Auctions will be held each day of MAHSC. Bidding times will be announced daily at the Silent Auction display. All proceeds from the auctions benefit the Virginia Horticultural Foundation's Scholarship Fund. Thank you to our sponsors, vendors and educational partners for your generous donations of Silent Auction items.

REGISTER

Visit www.mahsc.org
to register today! Have
questions? Call
757-523-4734 or email
info@vahort.org.

HOTEL & LOCATION INFORMATION

The Founders Inn & Spa in Virginia Beach hosts our 2017 event and is central to all of the Mid-Atlantic region. This modern facility provides 25,000 sq. ft. of flexible meeting room space; affordable lodging; spa; tennis courts; and heated indoor pool. Enjoy ample, free outdoor parking, lunch options at the Swan Terrace Grill or affordable ala carte choices.

Address & Directions

5641 Indian River Road
Virginia Beach, VA 23464
From Richmond
take I-64 exit 286B
From Norfolk / Suffolk
take I-64 exit 286B

Discounted Room Rates (Good through Dec. 15, 2016): \$89 plus state and local taxes. Group code: 515656

Hotel Reservations:

Click: www.mahsc.org. Look at the bottom of the page for a link directly to Founders Inn & Spa.

Call:

757-366-5700 or 800-826-4466.
Mention "MAHSC"

Parking:

Free parking spaces on-site. Space available for trucks & trailers.

2017 Educational Partners

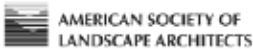


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Class Tracks & CEUs

Look for these color-coded buttons throughout this booklet to easily recognize the MAHSC class tracks.

- A ARBORICULTURE** ▶ Pest updates, theories and skills for veteran climbers, ground crew, foresters & tree huggers.
- B BUSINESS & MANAGEMENT** ▶ Topics to help manage the business & its people: all with an eye to the future.
- H HORTICULTURE SKILLS** ▶ The art and science of horticulture. Learn why things are done to make plants grow.
- D LANDSCAPE ARCHITECTURE & DESIGN** ▶ For commercial, municipal and residential development and designs.
- L LANDSCAPE MANAGEMENT** ▶ Ornamental, turf and aquatic topics by experts from industry and universities.
- P PLANTS & PRODUCTION** ▶ Production techniques, industry trends and new introductions
- V HARDSCAPES** ▶ All about pavers, driveways, firepits, walls, etc. with installation and maintenance explained.

Continuing Education Units (CEUs) As of October 2016

Professional certifications are integral to the educational mission of The Virginia Horticultural Foundation. MAHSC strives to fulfill as many continuing education requirements as possible so our attendees can make the most of their professional training dollars. The following green industry organizations approve all or portions of our schedule. At the time of printing, all credits may not be finalized; these are listed as "Pending." Check mahsc.org for approvals under the CEUs tab or call 757-523-4734 to have a current list sent to you.

American Society of Landscape Architects (ASLA) Pending

LA = approved Professional Development Hour. **LA:H** = approved Health, Safety, Welfare. Obtain **ASLA LACES Approval Sheet** from registration desk, have each class "stamped" and RETURN to us;

MAHSC must submit for you. Photocopies available. A personal certificate issued after MAHSC is evidence of your PDH's.

Association of Professional Landscape Designers (APLD)

PD = approved CEUs. Check APLD.org for regular or business CEU designations. Obtain **APLD Approval Sheet** from registration desk, sign beside each class you attend and keep for reference.

APLD requires individuals to submit CEUs at renewal time.

Crew Manager & Advanced Crew Manager (The Virginia Horticultural Foundation)

Any class hour = 1 CEU. Use the CEU form in registration packet, complete each class code and "stamp" to verify attendance. Submit to MAHSC registration desk. Copies available upon request.

Golf Course Superintendents Association of America (GCSAA) Pending

Awards education points for each full day of attendance. Use education point affidavit and submit yourself online. Event code provided in MAHSC registration packet. GCSAA approved our event for ___ Educational Points no matter which day you attend.

Interlocking Concrete Pavement Institute (ICPI)

VR = approved workshop or course for ICPI credits

Obtain an **ICPI CEU Approval Sheet** in class.

International Society of Arboriculture (ISA)

ISA = Category-specific CEUs

A = Arborist; **U** = Utility; **M** = Municipal; **C** = Tree Worker Climber Specialist; **Bs** = Board Master Science; **Bp** = Board Master Practice; **Bm** = Board Master Management;

Sign ISA attendance sheets after each class; with your ISA number

National Association of Landscape Professionals (NALP formerly PLANET)

Any class hour = 1 CEU. **LP** = approved for more than 1 CEU, as specified.

Submit individually using the NALP Continuing Education Unit Submission Form available at LandcareNetwork.org.

Society of American Foresters (SAF) Pending

Approved CFE in category: 1-CF or category 2. Obtain a **SAF CFE Sheet** from registration desk, have your courses "stamped" and RETURN to us. MAHSC must submit the form for you. Photocopies available.

Professional Grounds Management Society (PGMS)

Any instructional day = 1.5 CEU. Use the CEU form provided in registration packet, complete each class code and "stamp" to verify attendance, submit to PGMS as instructed.

North Carolina Board of Landscape Architects (NCBoLA) Pending

Submit individually using the Continuing Education Activity Approval Form found at ncbola.org under the 'forms' tab.

Virginia Certified Horticulturist & Advanced Certified Horticulturist (VNLA or certified nurseryman from other states)

Any class hour = 1 CEU. Use the CEU form provided in registration packet, complete each class code and "stamp" to verify attendance, submit to VNLA as instructed. Most states accept MAHSC classes for CEUs; verify with your state association first.

Virginia Certified Nutrient Management Planner (VA Dept. of Conservation & Recreation)

DCR = Nutrient Management Program. Obtain a **VA DCR Approval Sheet** from registration or DCR exhibit table, have each class "stamped" and submit by mail.

Virginia Registered Landscape Architects (VA DPOR)

Any class hour = 1 CEU. Use the CEU form provided in registration packet, complete each class code and "stamp" to verify attendance and file with VA DPOR as instructed.

Virginia Society of Landscape Designers (VSLD)

Any class hour = 1 CEU. Use the CEU form provided in registration packet, complete each class code and "stamp" to verify attendance submit to VSLD as instructed.

Industry Certification Testing

Register directly with certification agencies by Dec. 20, 2016 to ensure that fees and testing approval are received in time.

Monday 8:00am - 4:00pm

JANUARY 16

Techniseal Certified Applicator Class

- Certification plus 3 CEUs towards ICPI
- Select Techniseal Certification on MAHSC Registration.
- No additional fee for exam.



Friday 8:00am - 12:00pm

JANUARY 20

International Society of Arboriculture (ISA) Exam

- Apply at isa-arbor.com/certification, call 888-472-8733 or email cert@isa-arbor.com.
- Select ISA-EXam on your MAHSC registration form.



Wednesday 5:30 - 9:30pm

JANUARY 18

Virginia Certified Horticulturist

- Register at www.vnla.org, call 800-476-0055 or e-mail VCH@vnla.org. Order manual from VNLA.
- Suggest attending Horticulture Skills Track courses to review materials.
- Select VCH on your MAHSC registration form.



Wednesday and Thursday 8:00am - 4:00pm

JANUARY 18 & 19

Advanced Residential Paver Technician (ARPT) Course

- Recommended (but not required) that participants have completed the ICPI Concrete Paver Installer Course prior to attending this two-day course.
- An Advanced Residential Paver Technician designation can be earned by meeting additional requirements.
- Select ARPT on MAHSC Registration. For your convenience, MAHSC will collect ICPI fees at the time of registration.



Thursday 5:30 - 8:30pm

JANUARY 19

Chesapeake Bay Landscape Professionals Exam

- Level 1 Exam
- Go to www.cblpro.org for information on training and to register with agency.
- Select CBLP Exam on your MAHSC registration form.



Friday 8:00am - 12:00pm

JANUARY 20

Crew Manager Certification & Exam

- Attend two day training on Wednesday & Thursday (see page 20).
- Select CM on the MAHSC registration form, no additional fee required for exam.
- Achieve passing grade on exam.



Pesticide Certification Training & Testing

Register directly with VDACS Office of Pesticide Services by December 20, 2016 to ensure that testing permission is approved.

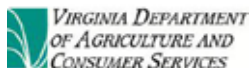
Pesticide Certification Review Days (VA Only) (see page 22 for detailed schedule)

January 18: Ornamentals (3A) and Turfgrass (3B)

January 19: CORE Manual - Registered Technician (60) or Private (90 or 91)

JANUARY 18 & 19

WEDNESDAY AND THURSDAY 8:00am - 4:00pm



Virginia Pesticide Private Applicators (category definitions and registration info on page 22)

- Select Private 90, 91 on MAHSC registration form. No pre-approval required from any state agency.
- Bring a photo ID, calculator and pencil to exam on Friday.

Virginia Pesticide Commercial Applicators (category definitions and registration info on page 22)

- Select CORE, 2, 3A, 3B, 5A, 6, 10, 60 on MAHSC registration.
- Register with VDACS (see page 22 for specific instructions)
- On test day, bring VDACS authorization letter, current photo ID, calculator and pencil.
- No FAX is available—you must have your VDACS approval letter in hand.

Pre Conference Events - Monday, January 16, 2017

A ARBORICULTURE B BUSINESS & MANAGEMENT H HORTICULTURE SKILLS D LANDSCAPE ARCHITECTURE & DESIGN L LANDSCAPE MANAGEMENT P PLANTS & PRODUCTION V HARDSCAPE

ALL DAY EVENTS

8:00 am - 4:00 pm (Includes breaks as scheduled by teaching team.)

Techniseal Certified Applicator Class V L D

Aaron Phifer, *Techniseal*

This training class provides an overview of joint stabilization, stain removal, surface preparation, and Protector application. Advanced teaching with hands-on training provides the opportunity for certification.

CEUs: 3 = VR

8:00 am - 3:30 pm (Includes breaks as scheduled by teaching team.)

Horticulture Skills in Español - Dia de Habilidad en Horticultura en Español H L P

Yolima Carr, Curator of Gardens & Grounds,

The Hermitage Museum & Gardens

Lessons and Activity Topics:

Botany - anatomy, life-cycles (annual, biennial, perennial)

Pruning - teach skills for woody deciduous pruning, review anatomy

Chemicals - how fertilizers and pesticides work, application timing, math for mixing and diluting

Equipment - safe use and routine maintenance on trimmers, mowers, blowers, etc.

Turfgrass - species ID, intro to propagation by discussing over-seeding, sprigging and plugging

Pruning Practical - Outdoor pruning examples on deciduous & evergreen trees & shrubs

This program includes lunch in the Swan Terrace restaurant. LIMIT 20.

EVENING EVENTS

5:00pm MAKE AND TAKE WORKSHOPS

Growing Gourmet and Medicinal Mushrooms P H

Mark Jones, *Sharondale Farms*

This evening workshop will build on Mark's presentation at Home Gardener's Day. Participants will learn to inoculate a log with mushroom spawn to grow their own gourmet mushrooms. Take your log home and follow Mark's instructions to produce fantastic fungi! Limit 25, \$25



Create Your Own Terrarium Hinterland Trading Company

Explore the unique world of air plants with staff from Hinterland Trading Company. Choose from a buffet of plants and accessories to create a one-of-a-kind terrarium, and take home a custom tool kit to care for your new plants. Limit 25, \$40

KEYNOTE ADDRESS 8:00 - 9:00am

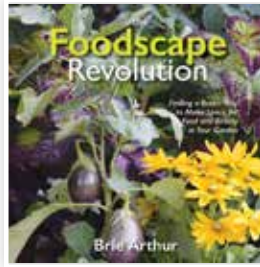
Foodscape Revolution



Brie Arthur, *Garden Communicator*

Brie has fine-tuned her signature design technique of Foodscaping, a sustainable landscape practice that embraces beauty and utility. Working with public school systems and suburban developments, Brie is changing the way green spaces are designed and utilized. Encouraging everyone to “think outside of the box”, learn how pairing edibles in a traditional ornamental landscape increases bio-diversity and adds purpose to everyday spaces. The best edible and ornamental plants are featured to inspire attendees to create purposeful landscapes that engage people of all ages. Organic growing insights are shared to encourage professionals and homeowners to embrace sustainable practices.

CEUs: 1 = ISA: A, M, Bp/PD/LA:H



9:15 - 10:15 am CLASS CHOICES

Fruit Trees for Coastal Virginia



Barry Robinson, *Horticulturist*

Learn the basics for selecting, installing and maintaining healthy and productive tree fruit in your client's landscape.

CEUs: 1 = VADCR/ ISA: A, M, Bp/PD

Boxwood Blight Update



T. Mike Likins, *Extension Agent, Chesterfield County, Virginia Cooperative Extension*

This session will provide an update on the latest findings from the ongoing efforts of the Boxwood Blight Task Force to detect, diagnose, and manage the spread of the disease in ornamental landscapes, historical gardens, and nursery production

CEUs: 1 = ISA: A, C, M, Bs/PD

Botany I



Andrea Davis, *Extension Agent, Virginia Beach Virginia Cooperative Extension*

How do plants grow from nut to tree harvesting only sun, water and minerals? Learn plant physiology (how plant parts function) with a focus on understanding the link between function and plant health and vigor.

VADCR/PD

Worker Protection Standard Update



Micah Raub, *Program Coordinator, VDACS Office of Pesticide Services*

In 2015, the federal Worker Protection Standard regulation was revised. This presentation will provide an overview of the new requirements which will be implemented in 2017.

CEUs: 1 = ISA: A, C, U, M, Bm/

Turfgrass Tuesday

Cultural Practices for Turfgrass Management



Adam Nichols, *Agricultural Specialist, Hampton Roads Agricultural Research and Extension Center, Virginia Tech*

Take a look at how cultural practices can be a valuable part of your landscape management schedule. Techniques and benefits of proper mowing, verticutting, topdressing, and aeration will be discussed.

CEUs: 1 = VADCR/PD

Propagation in Commercial Greenhouses



Sheri White, *Production Planner, White's Greenhouse and Nursery*

What are the benefits of in-house propagation vs. ordering in plugs and seedlings? What equipment or labor needs should be addressed to implement commercial propagation? How can this change affect your bottom line? Find out the answers to these questions and more in this information-packed session.

10:30 – 11:30am CLASS CHOICES

What's Bugging My Tree: Top 10 Pests & Diseases of Landscape Trees

A L P

Jason Heizer, ISA Certified Arborist, Bartlett Tree Service

This presentation discusses the top 10 pests and diseases affecting trees found in Hampton Roads to equip you with the knowledge you need on your clients' properties. **CEUs: 1 = ISA: A, C, M, Bs/**

Protecting the Health of Coastal Ecology

D L B

Yolima Carr, Curator of Gardens, The Hermitage Museum; **Jack Erwin**, Certified Arborist, Landscape Coordinator, City of Norfolk; **Justin Shafer**, Environmental Engineer, City of Norfolk

This round table discussion explores the regulations, pitfalls, and best practices surrounding the restoration, maintenance, and alteration of landscapes connected to local waterways, with an emphasis on cultural practices that improve the health of plant and animal communities in the Chesapeake watershed while still producing appealing areas for public or private enjoyment.

CEUs: 1 = VADCR/ ISA: A, C, M, Bm/ LA:H

Soils and Fertilizers

H L

Megan Tierney, Extension Agent, Yorktown, Virginia Cooperative Extension

This class will teach you the foundation of soil science to help you discover the world beneath your feet. Soils are the foundation on which we stand & the foothold for plants' roots. Learn 3 soil textures & the difference between soil and media. Fertilizers are explained with attention to the specific nutrients needed by plants.

CEUs: 1 = VADCR/PD

The Disney Experience

B

John Moss, Councilman, City of Virginia Beach

Disney has created an empire based on the simple concept of making the customer happy. It may be a simple concept, but it isn't always simple to keep a customer happy. Learn how the principles of elite customer service can be applied to your business to keep your customers satisfied and coming back for more.

Turfgrass Tuesday

Maintenance of Zoysia & Bermuda Grasses

L

Charles Peacock, Professor, North Carolina State University

Over the last 15 years, both public and private breeding programs have released new cultivars of warm-season grasses. This presentation will provide information on performance characteristics of these new grasses, their agronomic requirements and how they differ and how to develop IPM strategies for dealing with pest problems.

CEUs: 1 = VADCR/PD

11:30am - 1:30pm LUNCH BREAK

Add a LUNCH & LEARN or see our PRODUCT SHOWCASES

11:45am – 1:15pm – Lunch and Learn

How to Get Your Production Staff to Sell, Sell, Sell!

B

Mark W. Maslow, Founder & President, Southern Landscape Group, Inc

It has often been the mantra that sales are the responsibility of the sales team. While it is predominantly the responsibility of the sales team to close and document the sale, there are many ways the production team can bring in the leads. Learn from real world experience as Mark shares some of his company's secrets on how he motivates his production team members to sell more landscape work! From cold calls to up-sells, the opportunities are plentiful! \$40, Limit 30 **CEUs: 1.5 = LP**



1:45 – 4:00 pm Skills Workshop

Budding & Grafting

A P

Barry Robinson, Horticulturist

Learn information on tree fruit - variety and site selection, planting and maintenance, along with grafting knowledge and hands-on experience. Participants will graft two apple trees to take home. Limit: 12, \$15.

CEUs: 2.25 = ISA: A, Bp/ LP/ 1 = PD



1:45 – 2:45pm CLASS CHOICES

Our Natives Are Under Attack A L

Sherry Kern, ISA Certified Arborist, Tidewater Community College

Learn about both old and new diseases and insect pests that threaten our valuable native trees and shrubs. This talk discusses these pests and how to protect the trees and what to expect in the future.

CEUs: 1 = ISA: A, C, M, Bs/PD

Vegetation for Stormwater Wetlands and Ponds: Essential Concepts L P D

Ellen Colodney, Wetland Plant, Inc

Adding wetland plants to stormwater management systems is a cost-effective way to treat water pollution and improve public safety. Regulations strongly encourage the use of such plants in stormwater ponds and wetlands. This talk will teach you everything you need to make your stormwater pond and wetland plantings thrive.

CEUs: 1 = VADCR/PD

Bug Basics H

Janet Spencer, Extension Agent, Isle of Wight, Virginia Cooperative Extension

An introduction to entomology basics. Insect biology and identification will be discussed, as well as beneficial and harmful insects found in landscape settings.

CEUs: 1 = PD/ LA:H

Digital Garden Photography: Seeing, Composing, and Creating the Image with a Landscape Industry Perspective B D

Robert Lyons, Professor Emeritus, Landscape Horticulture, University of Delaware

This talk is example-driven and provides understandable information to create aesthetically pleasing and pragmatic images suitable for use by landscape professionals. Outstanding images will help market and sell your goods and services- it's as simple as that. Equipment details will be discussed only briefly; instead, emphasis will be on the impact of prevailing light and photographic composition. This talk aims to provide an improved understanding of the value of photography as a tool that can enhance print and digital media, catalog and portfolio development, and client cultivation.

CEUs: 1 = PD/ LA:H

Turfgrass Tuesday

Diseases of Turf Grasses: What You Really Need to Know L

Lee Butler, Extension Coordinator, North Carolina State University

This seminar will cover the diagnosis and management of the most common diseases of cool and warm-season turfgrasses in the landscape, with attention to how fungicides move within plants and how they affect fungi.

CEUs: 1 = PD

Introduction to Porcelain Pavers V

JP Teig, Territory Manager, Belgard

This introductory-level class covers the difference between working with and installing porcelain pavers vs. traditional stone. Highlights potential uses to satisfy the needs of residential and commercial customers, as well as basic installation techniques.

CEUs: 1 = VR

3:00 – 4:00pm CLASS CHOICES

Trailblazing in the Urban Forest A D

Susan French, Arborist, City of Virginia Beach

Urban tree trails provide inspiration for people of all ages to re-discover the benefits of tree planting, maintenance and preservation. However, these trails also require careful planning and development. Learn how communities are successfully creating and implementing tree trails to engage more citizens in their own neck of the woods.

CEUs: 1 = ISA: A, M, Bm/

Managing Public Gardens L D

Brian O'Neil, Director, Norfolk Botanical Garden

Managing a public garden requires integrating the schedules and needs of multiple departments to create a cohesive plan that furthers the educational mission of the garden and provides a natural respite for the public. This lecture offers insights to the challenges and rewards that come with putting all the pieces together.

Turfgrass Tuesday

Turf Types & Establishment H L

Adam Nichols, Agricultural Specialist, HRAREC

This is a beginner session for landscapers finding themselves on new turf (HA!) Covers the basic species of lawn grasses, how they differ in growth and habit, and which ones may be better suited to a specific landscape environment. Selecting the best turf, then getting the grass to grow (establishment) are the key lessons of this hour.

CEUs: 1 = VADCR/PD

Know Your Client Inside and Out B

Mark W. Maslow, Founder & President, Southern Landscape Group, Inc

How many of you leave your office on a daily basis to start cold-calling or prospecting? Now, how many of you know exactly who your ideal customer is? If you are trying to sell and you do not know the profile of your ideal client/customer, you are pushing your wagon uphill, backwards. Let Mark take you through the process of identifying and targeting your ideal client base. Think about the energy wasted on a daily basis when you focus your time on people that are not going to buy your goods/services! Let's put that energy to work in a positive direction!

CEUs: 1 = PD/ LA:H

Turfgrass Tuesday

Update on Weed Management Techniques L H P

Jeffrey Derr, Professor, Weed Science, Virginia Tech, Hampton Roads

Controlling weeds in turf stands is a fundamental component of turf management. Dr. Derr will discuss the latest weed control research conducted at the research station as well as cover control options for the most troublesome weeds in turfgrass.

Paver 101 Introduction to Interlocking Paver Installation V

JP Teig, Territory Manager, Belgard

This class provides a basic overview of the best practices of installing interlocking concrete paver systems.

CEUs: 1 = VR

EVENING EVENTS

5:30pm MAKE AND TAKE WORKSHPS

Creating Concrete Leaf Castings H D

Eileen Walsh, Virginia Beach
Master Gardener

Learn how to make a concrete leaf casting for use as a bird bath, feeder, or decorative garden art in this hands-on workshop.

**Castings can be picked up on Wednesday – they need time to set. Limit 12. \$25.



Film Night in the Jefferson Amphitheater

7:00 - 9:30pm

Matt Damon stars in this drama about an astronaut accidentally left behind on a manned mission to Mars. Left on his own to survive, Damon's character, Mark Watney, a botanist as well as an astronaut, searches for a way to contact Earth. In his efforts to survive, he relies on ingenuity, creativity, and a little bit of gardening.

CEUs: FREE, FUN

8:00am – ALL DAY PROGRAM CHOICES

Pesticide 3A, 3B Training - Page 22

CEUs: ISA: 3 = A, C, M; .75 = U; 1.75 = Bs; 1.25 = Bp/5.75 = LA:H

Crew Manager Certification - Day 1 of 2 (Page 20)

CEUs: ISA: 6 = A, Bm; 1 = U, C, M/11 - LA:H

Advanced Crew Manager - Page 21

CEUs: 7 = ISA: A, Bm/5.5 = LA

ICPI Advanced Residential Paver Technician Class - Day 1 of 2 (Page 21)

8:00 – 9:00am CLASS CHOICES

Chainsaw Safety A L

Gary Umphlett, *Captain, Virginia Beach Fire Department*

Don't be negligent in maintaining and inspecting your saw. It is an everyday tool that can save or ruin a life. Useful practices and reminders for operators and support crews.

ISA: A, U, C, M, Bm/LA:H

Green Infrastructure for Stormwater Management D

Vincent Cotrone, *Urban Forester, Penn State Cooperative Extension*

Learn how "Green Infrastructure" such as trees, rain gardens, green roofs, permeable pavers, and rain barrels are helping to capture, infiltrate and evapo-transpire rain where it falls, reducing polluted stormwater runoff and improving the health of surrounding waterways. These new "green" practices are not only cost effective, they provide a wealth of additional benefits or ecological services such as reducing energy consumption and urban heat island effects, improve air quality, sequester atmospheric carbon, increase property values, improve community health, and appearance.

CEUs: 1 = VADCR/PD

Botany and Plant Propagation H P

Andrea Davis, *Extension Agent, Virginia Beach Virginia Cooperative Extension*

Plant parts are placed and designed for a particular function. Learn the names for plant parts, how they function for plant growth & how we can use this knowledge to propagate plants for our industry. Botany Basics on Tuesday at 9:15 recommended as a precursor to this session.

CEUs: 1 = VADCR/PD

8:00 – 10:15am Skills Workshop

Diagnosing Disease and Designing Integrated Pest Management for Turfgrass L H

David McCall, *Plant Pathologist, Research Associate, Virginia Tech University*

Environmental conditions, management practices, insects, and site conditions can all play a role in the development or spread of turfgrass diseases. This extended session provides an in depth look at the process of correctly diagnosing, and dealing with, turfgrass disease. Learn what resources are available to help diagnose problems, and how to develop an integrated pest management plan to correct current problems and prevent future ones. Limit 20, \$15

CEUs: 1 = PD / 2.25 = LP

8:00 – 10:15am Skills Workshop

Advanced Diagnosing of Ornamental Plants P L H

T. Mike Likins, *Extension Agent, Chesterfield County, Virginia Cooperative Extension*

This intensive session looks at all the components of disease and identifies aspects that must be considered when making accurate disease diagnoses. The session will look at predisposing factors and their influence on disease development. Management strategies will be discussed. Limit 30. \$15

CEUs: 2.25 = LP

9:15 – 10:15am CLASS CHOICES

Changing Landscapes: An Opportunity for a New Partnership Between Permaculture and Arboriculture A D

Joe Murray, *Consulting Arborist & Educator, Tree Literacy, LLC*

Arborists are continually identifying homeowner practices that impact tree health in urban landscapes. An understanding of basic permaculture practices (plant guilds, swales, vertical stacking, polyculture, edge effect, forest farming...) will help arborists assess if these practices are being conducted properly and are benefiting the trees. Conversely, those practicing permaculture may benefit from arboricultural best management practices. A dialogue between arborists and permaculturists should result in a mutualistic symbiotic relationship between these two plant-based disciplines.

CEUs: 1 = ISA: A, C, M, Bp/PD

Moving Through the Landscape D

Pam Beck, *Garden Writer*

Movement through and around the landscape is dictated by the paths and passageways, barriers and borders, objects of interest, outstanding specimen plants, water features, etc. that together create unforgettable garden rooms. This lecture will examine how to incorporate some of these devices of landscape design to help your garden flow.

CEUs: 1 = PD/LA:H

9:15 – 10:15am CLASS CHOICES (Continued)

Healthy Virginia Lawns L B

Dave Close, *Consumer Horticulture and Extension Master Gardener Specialist, Virginia Tech*; **John Freeborn**, *Assistant State Master Gardener Coordinator, Virginia Tech*

This program highlights best management practices for residential lawns, and should serve as a “train the trainer” to help landscape management crews establish realistic goals and outcomes with homeowners.

CEUs: 1 = VADCR/

Pruning Primer H A L P

Jim Orband, *Senior Extension Agent, Emeritus*

Learn how and the reasons why we make specific pruning cuts on evergreen and deciduous trees and shrubs. By attending this session, you’ll learn how plants respond to pruning cuts. You will learn specific pruning terminology and see where to make a pruning cut that will encourage healthy growth. Pruning is an excellent cultural control for pest management and aids in the sustainable landscape.

VADCR/ ISA: A, C, U, M, Bp/PD/LA:H

10:30 – 11:30am Pre-Lunch Speaker

New & Exciting Trees & Shrubs for the Forward Thinking Gardener A H D L

Vincent Simeone, *Horticulturist, Garden Writer, Lecturer*

Each year hundreds of new species, varieties and cultivars of plants are introduced into commerce. These choice plants offer superior flowers, foliage, fruit, superior vigor and cultural adaptability. This lecture will focus on the newest and most promising selections of trees and shrubs for the gardeners with a true appreciation for the best and brightest plants available.

CEUs: 1 = VADCR/ ISA: A, C, U, M, Bp/PD/LA:H

11:30 am - 1:30 pm LUNCH BREAK

11:45am – 1:15pm – Lunch and Learn

Dogscaping: Creating a Pet Friendly Garden D B L

Vincent Simeone, *Horticulturist, Garden Writer, Lecturer*

Our pets are an integral part of our everyday lives and family. It can be a challenge for gardeners to balance a healthy, safe and beautiful garden with the needs of their pets. This lecture will focus on how to make your garden safe and enjoyable for both your dogs (and cats) and their human companions.

Helpful ideas will be presented such as using safe, durable surfaces and materials, reducing landscape wear and tear, avoiding toxic plants, using containers effectively and even growing fruits, vegetables and herbs that can be used as edible treats for your pets.

Limit 30, \$40 **CEUs: 1.5 = PD/LP/LA:H**



12:30 – 1:15pm Product Showcase

1:45 – 4:00pm Skills Workshop

Herbaceous Plant Propagation H P

Kim Mack, *Lab & Research Specialist, Horticulture, Tidewater Community College*

This hands-on session will teach basic plant propagation – from setting up a propagation area to starting your own plants using vegetative cuttings, seeds, and division/separation. Participants will learn techniques for taking cuttings and sowing seeds, explore different propagation media and containers, and use rooting hormone. Take home your starts and a toolkit of essentials. Limit 15. \$25

CEUs: 2.25 = LP

1:45 – 2:45pm CLASS CHOICES

Working Around Powerlines – Safety for the Landscape Industry A L

Mike Brucato, *Supervisor – Electric Transmission Forestry, Dominion Virginia Power*

Covers safety practices for landscape professionals dealing with electrical hazards associated with horticultural and arboricultural work conducted around overhead and underground power lines.

ISA: A, C, U, M, Bp/LA:H

Made in the Shade: Ferns and Other Shade Loving Plants

Jim Orband, *Senior Extension Agent, Emeritus, Virginia Cooperative Extension*

Having shade in the landscape presents many challenges to the designer. The designer can turn these challenges into opportunities and utilize an entirely new plant palette. These shade tolerant plants will add contrast, texture and sustain a landscape to be enjoyed for many years.

VADCR/PD/LA:H

Working with Nature to Restore Soil Health A L H

Joe Murray, *Consulting Arborist and Educator, Tree Literacy, LLC*

“Working with Nature to Restore Soil Health,” is intended to really drive home those mindless practices (routine fertilization, pesticide applications, improper mulching, etc) that harm soil biology while listing the things that can be done to restore the soil food web. I’ll also take about 10 or 15 minutes to address where homeowners (and some arborists) obtain unrealistic expectations about their landscapes and resistance to improving soil health.

CEUs: 1 = VADCR/ ISA: A, C, M, Bp/PD/LA:H

What’s Bugging Your Trees & Shrubs? L H P A

Dr. Pete Schultz, *Entomologist & Director, Hampton Roads Agricultural Research and Extension Center*

Newly invasive insects affecting trees and landscapes continue to appear and some are becoming pests. New species will be discussed and some “old timers” reviewed.

CEUs: 1 = PD /ISA: A, C, M, Bs

3:00 – 4:00pm CLASS CHOICES

Trees: Who, Where, & Why A D

Penny Singlemann, *Director of Horticulture, Maymont Foundation*

Trees are primary components in the landscape that are enjoyed for decades, even generations. With so many to choose from what are the key points to consider when choosing a tree. Where is a tree best suited and why would one tree do better than another.

VADCR/ ISA: A, C, U, M, Bp/PD/ LA:H

3:00 – 4:00pm CLASS CHOICES (Continued)

Textural Contrasts in Plant Selection and Landscape Use D

Robert Lyons, Professor Emeritus, Landscape Horticulture, University of Delaware

Through examples of individual plants and real gardens, this presentation will highlight and emphasize plants choices based on the understanding of bold and fine foliage texture, strong and subtle colors, and creating plant combinations that showcase visually appealing and pragmatic examples that any gardener can create. The focus is on herbaceous plants.

CEUs: 1 = PD/ LA:H

Managing Crepe Myrtle Scale L H

Dave Lawson Branch Manager, Landscape Supply of VA

Crepe Myrtle Bark Scale is emerging as a potentially serious threat to trees and shrubs. Why do we have it? What should we be looking for? How do we get rid of it? This session provides a comprehensive look at each of these questions.

EVENING EVENTS

5:00pm MAKE AND TAKE WORKSHPS

Designing Hardy Winter Containers D P H

Marie Mims Butler, Horticulturist

Learn Marie's tips on creating beautiful, long-lasting containers and learn which plants will make a statement in the cold winter months, how to create height, and what elements can add color to winter plantings. Participants will plant their own containers to take home and enjoy! Limit 15. \$45

CEUs: 2 = LA:H



Build a Rain Barrel A D P H L

Virginia Beach Master Gardener Water Stewards

Learn about water conservation, build a rain barrel and learn how to install it at your home. Each participant will construct a 65-gallon rain barrel to take home and receive an installation kit. Installation kit utilizes existing downspouts. Limit 12. \$60

All Day Program

WEDNESDAY, JANUARY 18, 8:00 am - 4:00 pm and THURSDAY, JANUARY 19, 8:00 am - 4:00 pm

Advanced Residential Paver Technician.

Greg Ambrose, Hardscape Instructor, Fairlawn Consulting

The Advanced Residential Paver Technician (ARPT) Course provides classroom based training in residential paver installations and covers some of the hottest topics in outdoor living space design and construction, specifically specialty applications such as:

- raised and multi-level patios
- fireplaces
- fire pits
- grills
- outdoor kitchens
- pool decks
- permeable interlocking concrete pavement.

It is recommended (but not required) that participants have completed the ICPI Concrete Paver Installer Course prior to attending this two-day course. A Residential Paver Technician designation can be earned by meeting additional requirements. Visit the ICPI website for more information.

Course Results

The Advanced Residential Paver Technician (ARPT) Designation provides Certified Installers with an opportunity to demonstrate advanced knowledge and skill in residential paver installations including outdoor living space design and construction, specifically specialty applications such as raised and multi-level patios, fireplaces, fire pits, grills, outdoor kitchens, pool decks and permeable interlocking concrete pavement.

Requirements:

- Hold a current ICPI Concrete Paver Installer Certification.
- Complete the Advanced Residential Paver Technical Course and earn a passing score on the course exam.
- Complete and submit an application showing the minimum installation experience requirement of at least 10 projects totaling 50,000 sq. ft. in the residential market.

13 CEUs = VR

Schedule At-A Glance

A ARBORICULTURE
 B BUSINESS & MANAGEMENT
 H HORTICULTURE SKILLS
 D LANDSCAPE ARCHITECTURE & DESIGN
 L LANDSCAPE MANAGEMENT
 P PLANTS & PRODUCTION
 V HARDSCAPE

Monday, January 16, 2017

H 8:00am - 3:30pm - ALL DAY EVENT: Horticulture Skills in Spanish

V 8:00am - 4:00pm - ALL DAY EVENT: Techniseal Certified Applicator Class VR

5:00 - 7:30pm MAKE AND TAKE WORKSHOP

H P D Make Your Own Terrarium

H P Growing Gourmet & Medicinal Mushrooms

Tuesday, January 17, 2017

H D L P 8:00am KEYNOTE: The Foodscope Revolution ISA: A, M, Bp/PD/LA:H

9:15 - 10:15am CLASS CHOICES

A D P Fruit Trees for Coastal Virginia VADCR/ ISA: A, M, Bp/PD

L P Boxwood Blight Update ISA: A, C, M, Bs/PD

H P Botany I VADCR/PD

B P Worker Protection Standard Update ISA: A, C, U, M, Bm/

L Cultural Practices for Turfgrass Management VADCR/PD

B P Propagation in Commercial Greenhouses

10:30 - 11:30am CLASS CHOICES

A L P What's Buggin' My Trees: Top 10 Pests & Diseases of Landscape Trees ISA: A, C, M, Bs/

L D B Protecting the Health of Coastal Ecology VADCR/ ISA: A, C, M, Bm/ LA:H

H L Soils and Fertilizers VADCR/PD

B The Disney Experience

L Maintenance of Zoysia & Bermuda Grasses VADCR/PD

B 11:45am - 4:15pm - LUNCH AND LEARN:
How to Get Your Production Staff to Sell, Sell, Sell LP

11:30am PRODUCT SHOWCASES

A P 1:45 AM - 4:00 PM - SKILLS WORKSHOP: Budding & Grafting ISA: A, Bp/ LP/ 1 = PD

1:45 - 2:45pm CLASS CHOICES

A L Our Natives Are Under Attack ISA: A, C, M, Bs/PD

L P D Vegetation for Stormwater Wetlands and Ponds: Essential Concepts VADCR/PD

H Bug Basics PD/ LA:H

B D Digital Garden Photography: Seeing, Composing, and Creating the Image with a Landscape Industry Perspective PD/ LA:H

L Diseases of Turf Grasses: What You Really Need to Know PD

V Introduction to Porcelain Pavers VR

3:00 - 4:00pm CLASS CHOICES

A D Trailblazing in the Urban Forest ISA: A, M, Bm/

L D Managing Public Gardens

H L Turf Types & Establishment VADCR/PD

B Know Your Client Inside & Out PD/ LA:H

L H P Weed Management Update

V Paver 101: Introduction to Interlocking Paver Installation VR

D H 5:30pm MAKE AND TAKE WORKSHOP: Creating Concrete Leaf Castings

Schedule At-A Glance

A ARBORICULTURE
 B BUSINESS & MANAGEMENT
 H HORTICULTURE SKILLS
 D LANDSCAPE ARCHITECTURE & DESIGN
 L LANDSCAPE MANAGEMENT
 P PLANTS & PRODUCTION
 V HARDSCAPE

Wednesday, January 18, 2017

8:00am - 4:00pm - ALL DAY EVENT: Pesticide 3A, 3B Training ISA: A, C, M, U, Bs, Bp/LA:H

8:00am - 4:00pm - ALL DAY EVENT: Crew Manager Certification (Day 1 of 2) ISA: A, Bm, U, C, M/ LA:H

8:00am - 4:00pm - ALL DAY EVENT: Advanced Crew Manager Certification 7 = ISA: A, Bm/LA:H

8:00am - 4:00pm - ALL DAY EVENT: ICPI Advanced Residential Paver Technician Class (Day 1 of 2) VR

8:00 - 9:00 am CLASS CHOICES

A L Chainsaw Safety ISA: A, U, C, M, Bm/LA:H

D Green Infrastructure for Stormwater Management VADCR/PD

H P Botany & Plant Propagation VADCR/IPD

H L 1:45 AM - 4:00 PM - SKILLS WORKSHOP: Diagnosing Disease and Designing Integrated Pest Management for Turfgrass PD / LP

L P H 1:45 AM - 4:00 PM - SKILLS WORKSHOP: Advanced Diagnoses of Ornamental Plant Disease LP

9:15 - 10:15am CLASS CHOICES

A D Changing Landscapes: An Opportunity for a New Partnership Between Permaculture & Arboriculture ISA: A, C, M, Bp/PD

D Moving Through the Landscape PD/LA:H

L B Healthy Virginia Lawns VADCR

H P A L Pruning Primer VADCR/ ISA: A, C, U, M, Bp/PD/LA:H

H D A L 10:30 - 11:30 am Pre-Lunch Speaker New & Exciting Trees & Shrubs for the Forward Thinking Gardener VADCR/ ISA: A, C, U, M, Bp/PD/LA:H

B D L 11:45am - 4:15pm - LUNCH AND LEARN: Dogscaping: Creating a Pet Friendly Garden PD/LP/LA:H

12:30 - 1:15pm PRODUCT SHOWCASES

P H 1:45 AM - 4:00 PM - SKILLS WORKSHOP: Herbaceous Plant Propagation LP

1:45 - 2:45pm CLASS CHOICES

A L Working Around Powerlines - Safety for the Landscape Industry ISA: A, C, U, M, Bp/LA:H

D P Made in the Shade: Ferns and Other Shade Loving Plants VADCR/PD/LA:H

A L H Working with Nature to Restore Soil Health VADCR/ ISA: A, C, M, Bp/PD/LA:H

H P A L What's Bugging Your Trees & Shrubs PD /ISA: A, C, M, Bs

3:00 - 4:00pm CLASS CHOICES

A D Trees: Who, Where, & Why VADCR/ ISA: A, C, U, M, Bp/PD/ LA:H

D Textural Contrasts in Plant Selection and Landscape Use PD/ LA:H

L H Managing Crepe Myrtle Scale

5:30 - 9:30 pm CLASS CHOICES

Exam - Virginia Certified Horticulturist

D P H 5:30pm MAKE AND TAKE WORKSHOP: Designing Hardy Winter Containers LA:H

H P A L D 5:30pm MAKE AND TAKE WORKSHOP: Build a Rain Barrel

Schedule At-A Glance

A ARBORICULTURE
 B BUSINESS & MANAGEMENT
 H HORTICULTURE SKILLS
 D LANDSCAPE ARCHITECTURE & DESIGN
 L LANDSCAPE MANAGEMENT
 P PLANTS & PRODUCTION
 V HARDSCAPE

Thursday, January 19, 2017

8:00am - 4:00pm - ALL DAY EVENT: Pesticide CORE Manual Training ISA: A, U, C, M, Bs, Bp, Bm

8:00am - 4:00pm - ALL DAY EVENT: Crew Manager Certification (Day 2 of 2) ISA: A, U, C, M; Bp, Bm, LA:H

8:00am - 4:00pm - ALL DAY EVENT: ICPI Advanced Residential Paver Technician Class (Day 2 of 2) VR

8:00am - 4:00pm - ALL DAY EVENT: Pesticide Recertification Day ISA

8:00 - 9:00 am CLASS CHOICES

A D L Meeting the Watering Needs of Landscape Trees VADCR/ ISA: A, C, M, Bp/PD/LA:H

L P Pollinator Protection PD/ ISA: A, U, C, M, Bp

D H P Butterflies in the Garden: Making Them Feel at Home PD

9:15 - 10:15am CLASS CHOICES

L D Creating Intimate Spaces PD/ LA:H

L A P Update on Pests of Dwellings & Landscapes ISA: A, C, M, Bs

D L P Invasives vs. Exotics - What We Need to Know VADCR/ ISA: A, M, Bm/PD/ LA:H

9:15 - 11:30am Extended Session

L A P Pesticide Safety - Protecting the Applicator, the Public, and the Environment LP/ ISA: A, U, C, M, Bm

10:30 - 11:30am CLASS CHOICES

A D L Trees and Turf: An Antagonistic Relationship VADCR/ ISA: A, M, Bp/PD/ LA:H

D L P H All About Vines VADCR/PD

B L A P VDACS & EPA Legal Update ISA: A, C, U, M, Bm/

B 11:45am - 4:15pm - LUNCH AND LEARN:
Professionalism: Getting Your Team to the Next Level PD/LP

11:45 am - 12:30pm CLASS CHOICES

L P Usual and Unusual Pollinators and Their Value to the World ISA: A, C, M, Bp

11:45am - 1:15pm CLASS CHOICES

A L P H Integrated Pest Management ISA: A, U, C, M, Bp

12:30 - 1:15pm PRODUCT SHOWCASES

1:30pm SILENT AUCTION CLOSES

1:30 - 2:30pm CLASS CHOICES

A D Native Trees for Wetland Areas VADCR/ ISA: A, M, Bp

L P Plant Pathology Update ISA: A, C, M, Bs

L P Best Practices for Landscape Management VADCR/

2:45 - 3:45pm CLASS CHOICES

L P Selecting Chemicals for Weed Control & Suppression

A D H Capstone Address - Gardens as Outdoor Classrooms PD

5:30 - 8:30 pm CLASS CHOICES

Exam - Chesapeake Bay Landscape Professional Certification

Friday, January 20, 2017

8:00am - 12:00pm - Certification Exams: Crew Manager, Pesticides, ISA

8:00am – ALL DAY PROGRAM CHOICES

Pesticide CORE Manual Training - Page 22
 CEUs: ISA: 4.75 = A, U, C, M; .75 = Bs; 1.5 = Bp; 2.5 = Bm

Crew Manager - Day 2 of 2 (Page 20)
 CEUs: ISA: 6 = A, Bm; 1 = U, C, M/11 - LA:H

ICPI Advanced Residential Paver Technician Class - Day 1 of 2 (Page 21)

Pesticide Recertification Day - Page 23

8:00 – 10:15am PESTICIDE RECERTIFICATION

Pesticide Safety – Protecting the Applicator, the Public, and the Environment L A P



Robert Christian, Investigator, VDACS OPS
 This extended session provides in depth information to keep you, your coworkers, and the public safe when you are handling or applying pesticides. Essential topics include PPE, spill management, and proper equipment choice. Covers potential impacts of applications to the environment and how to minimize harm.
 CEUs: 2.25 = LP/ ISA: A, U, C, M, Bm

8:00 – 9:00am CLASS CHOICES

Meeting the Watering Needs of Landscape Trees A D L

Scott Sjolander, Associate Educator, Penn State Extension
 As tree managers, we see many wonderful landscapes fail for lack of needed water. This story presents some best practices in providing supplemental water with least waste. It further estimates the amount of water a planting space can hold in reserve. See the difference that good design makes in preparing landscape success.
 CEUs: 1 = VADCR/ ISA: A, C, M, Bp/PD/LA:H

9:15 – 10:15am CLASS CHOICES
Creating Intimate Spaces D

Pam Beck, Garden Writer
 Whether you have a tiny lot or simply wish to make a large garden more manageable, your design challenges include creating the illusion of spaciousness while still maintaining privacy. Learn how to make the most of your intimate space selecting the right hardscape and plants, perspective, and fresh ideas.
 CEUs: 1 = PD/ LA:H

PESTICIDE RECERTIFICATION

Pollinator Protection L P



Eric Day, Manager, Insect Identification Lab, Virginia Tech
 The decline of pollinating insects and honey bees has raised concern about protecting pollinators. Who are the pollinators and what can be done to protect them and what can we do to safely control pests in the landscape.
 CEUs: 1 = PD/ ISA: A, U, C, M, Bp

PESTICIDE RECERTIFICATION

Update on Pests of Dwellings and Landscapes L A P



Eric Day, Manager, Insect Identification Lab, Virginia Tech
 New insect and mite pests and new control methods as well as a review of pests in 2016 with a look at what to expect in 2017.
 CEUs: 1 = ISA: A, C, M, Bs/

Butterflies in the Garden: Making Them Feel at Home H D P

Ruth Burch, Ruth Burch, “The Butterfly Lady”, Butterfly Society of Virginia, Virginia Native Plant Society, Virginia Beach Master Gardener
 You don’t have to give up form for function when it comes to designing a butterfly garden. With the proper selection of plants and other design elements, a garden can provide “creature comforts” to butterflies and other pollinators, while still offering aesthetically pleasing design and less maintenance for your clients. Emphasis will be on selection of native host and nectar plants to fit residential designs.
 CEUs: 1 = PD

Invasives vs. Exotics – What We Need to Know D L P

Vincent Simeone, Horticulturist, Garden Writer, Lecturer
 For years the debate about native plants and the threat of invasive species has been a hot topic. Great efforts have been made to identify and limit the infiltration of exotic invasive species into our environment. While there is still much more work to be done, educating ourselves and the gardening community still remains the best strategy to deal with this complex issue. This lecture will tackle the debate of native and exotic plant species and offer alternatives with the introduction of exceptional native plants, non-invasive exotic species and sound gardening practices.
 CEUs: 1 = VADCR/ ISA: A, M, Bm/PD/ LA:H

10:30 – 11:30am CLASS CHOICES

Trees and Turf: An Antagonistic Relationship A L D

Joe Murray, Consulting Arborist and Educator

Trees growing in lawns may look nice and, indeed, have become the norm for landscapes in the US, but this is not what nature intended. Sharing the same space, neither trees nor turf provide the maximum benefits proclaimed by their respective industries, at least not without the unsustainable practice of providing ecological subsidies. By better understanding their competitive strategies and roles in natural succession, arborists can speak more confidently about the necessity of keeping trees and turf apart.

CEUs: 1 = VADCR/ ISA: A, M, Bp/PD/ LA:H

All About Vines D P H L

Michael Andruczyk, Extension Agent, Chesapeake, Virginia Cooperative Extension

Take a look at different hardy and annual climbing plants that can be grown in the area. We will look at flowering, fruiting, pruning and training techniques as well as pollinators and other interesting facts.

CEUs: 1 = VADCR/PD

PESTICIDE RECERTIFICATION



VDACS & Legal Update B L A P

Rohan Williams, Compliance Manager, VDACS Office of Pesticide Services

What's new in pesticide regulations? How will these changes alter your day-to-day pest management strategy? Hear the latest from our state pesticide authority with updates coming down from federal departments in the EPA.

CEUs: 1 = ISA: A, C, U, M, Bm/

11:30 am - 1:30 pm LUNCH BREAK

Add a **LUNCH & LEARN** or see our **PRODUCT SHOWCASES**

11:45am – 1:15pm – Lunch and Learn

Professionalism: Getting Your Team to the Next Level B

Jeff McManus, Director of Landscape, Airport and Golf Services, University of Mississippi

Ask any winning team leader and they will tell you: building a successful team is no simple task – maintaining it is even harder. We do know that talent and team culture drives the success. Watering, nurturing and growing both creates an innovative process. Consistency is the result. \$40, Limit 30. **CEUs: 1.5 = PD/LP**



11:45am - 12:30pm PESTICIDE RECERTIFICATION



Usual and Unusual Pollinators and Their Value to the World L P

Megan Tierney, Extension Agent, Yorktown, Virginia Cooperative Extension

Learn about the biology of ecosystems and why we might want to think more before we spray – even with the threat of Zika.

11:45am - 1:15pm PESTICIDE RECERTIFICATION



Integrated Pest Management A H L P

Michael Andruczyk, Extension Agent, Virginia Cooperative Extension

A look at different techniques used in organic gardening and how they can be used in regular landscape situations to give alternatives, and possibly create a niche for businesses. All Categories

CEUs: 1.5 = ISA: A, U, C, M, Bp

11:45am - 1:15pm PESTICIDE RECERTIFICATION



Plant Pathology Update L P

T. Mike Likins, Extension Agent, Chesterfield County, Virginia Cooperative Extension

Hear the latest information from the world of plant pathology and disease control and get updates on familiar and emerging diseases that affect ornamental plants in the landscape and nursery settings.

CEUs: 1 = ISA: A, C, M, Bs

1:30 – 2:30pm CLASS CHOICES

Native Trees for Wetland Areas A D

Shereen Hughes, Virginia Coordinator, Chesapeake Bay Landscape Professional Program, Assistant Director, Wetlands Watch

Some great trees native to natural wetlands communities in the Chesapeake Bay Region are suitable for use in the landscape to mimic natural communities in designed features or to restore habitat in wet areas. Shereen will talk about right tree, right place for wet areas in the designed landscape.

CEUs: 1 = VADCR/ ISA: A, M, Bp

Best Practices for Landscape Management L P

Andrea Davis, Extension Agent, Virginia Beach, Virginia Cooperative Extension

This presentation will cover the range of best practices for residential and commercial landscapers – including mowing, mulching, planting, preventatives, fertilizing.

CEUs: 1 = VADCR/

2:45 - 3:45pm PESTICIDE RECERTIFICATION



Selecting Chemicals for Weed Control & Suppression

Dave Lawson Branch Manager, Landscape Supply of VA

With so many products available for weed control, choosing the best option for an application can be tricky. Hear the latest in pre-emergent applications, in season treatments & new products available for putting your weed issues to bed, and learn what factors should be considered when making your choice.

2:45 – 3:45pm CAPSTONE ADDRESS

Gardens as Outdoor Classrooms A D H

Laurie Fox, Horticulture Associate, Hampton Roads Agricultural Research and Extension Center, Virginia Tech

Gardens are everywhere and come in all shapes and sizes. They provide amazing opportunities for information transfer formally, informally, and everything between to diverse audiences from youth to adults and professionals to hobbyists. What garden classroom have you visited lately?

CEUs: 1 = PD

5:30 – 8:30pm CLASS EXAM

Chesapeake Bay Professional Landscaper certification exam.

LIMIT 75 No Fee

Making the move from the crew to the supervisor is tough! This certification develops supervisory and management skills, always emphasizing safety. To begin earning your stripes as a Crew Manager, you'll need people skills, strategies for discipline and a new approach to communication. To receive Crew Manager Certification, participation in both days of this training plus a passing grade on the written exam are required. To maintain certification: accrue 12 hours of qualifying CEU credits every 2 years and submit using the forms from mahsc.org 'Crew Manager' tab.

\$50 Materials Fee. LIMIT 50.

Day 1 of 2 – Wednesday, Jan. 18, 2017

8am – 2:45pm

Innovative Leadership

Martha Walker, *Community Viability Specialist, Virginia Cooperative Extension, Virginia Tech*

Making the transition from crew member to crew manager requires leadership, communication, and team management skills. In this training, Martha focuses on those critical skills to develop effective, confident leadership practices. She teaches problem-solving and discussion techniques to build strong lines of communication within your team and explores ways to identify the strengths and weaknesses of your team's dynamics in order to maximize employee talent and potential.

11:30am – 1:15pm

Lunch

Boxed Lunch Provided

3:00 – 4:00pm

First Aid & CPR Update

Herb Maher, *Safety Specialist, City of Virginia Beach*

Be prepared to respond in an emergency! Hear the latest in first-aid response and CPR techniques and learn the skills necessary to handle an injury or life-threatening situation.

Day 2 of 2 – Thursday, Jan. 19, 2017

8:00 – 10:15 am

Extended Session - Crash Dynamics

Michael Nash, *Law Enforcement Liaison, Virginia DMV*

Steven Kean, *Virginia State Trooper*

This presentation discusses the serious nature of motor vehicle crashes and demonstrates, in an easy-to-understand manner, the energy involved in a crash and the potentially tragic outcomes. Crash configurations, potential injuries, and occupant protection devices are discussed along with their lifesaving characteristics. New this year – learn what your responsibilities are for reporting and documenting vehicle accidents, and safety precautions you can take to minimize the effects of an accident when pesticides or other chemicals are being transported.

10:15am – 10:30am

Break

10:30 – 11:30am

Dig with C.A.R.E., Keep Virginia Safe!

Frank Hudik, *Damage Prevention Specialist, VA State Corp. Commission*
Virginia State Corporation Commission's C.A.R.E. message: Call Miss Utility at 811 before you dig; Allow required time for marking; Respect the marks; and Excavate carefully. Learn marking requirements, best practices used by utility operators and contract locating companies, and how to safely hand dig around underground utility lines.

11:30am – 1:15pm

Lunch

Boxed Lunch Provided

1:30 – 2:30pm

Pesticide Supervisor Responsibility

Rohan Williams, *Compliance Manager, VDACS OPS* and **Clint Shettle**, *Supervisor, Enforcement & Field Operations, VDACS OPS*

Crew managers must provide direct supervision for registered technicians and on-site supervision for individuals training to become registered techs. Learn the required recordkeeping and legal responsibilities of being in charge of applicators.

2:45 – 3:45pm – CAPSTONE ADDRESS

Gardens as Outdoor Classrooms

Laurie Fox, *Horticulture Associate, Hampton Roads Agricultural Research and Extension Center, Virginia Tech*

Gardens are everywhere and come in all shapes and sizes. They provide amazing opportunities for information transfer formally, informally, and everything between to diverse audiences from youth to adults and professionals to hobbyists. What garden classroom have you visited lately?

Advanced Crew Managers are on the fast track and establishing their management careers in the green industry. This training will expand your leadership skills and advance your understanding of supervisor responsibilities. Start generating business for the company and establish a safe environment and work place. Good standing as a Crew Manager and participation in this full day of training are required to attain Advanced Crew Manager status. To maintain Advanced Crew Manager certification, accrue 6 hours of CEU credits every two years according to program regulations and submit them using the forms found at www.mahsc.org under the Crew Manager tab.

\$60 materials fee. LIMIT 30.

Wednesday, January 18, 2017

8:00 am - 4:00 pm (breaks and lunch scheduled by presenter)

Advanced Crew Manager Training

(Certified Crew Manager in good standing required)



Jeff McManus, Director of Landscape, Airport and Golf Services, University of Mississippi

Landscaping departments and businesses have a modern mission that requires doing more with less and still meeting intense ground beautification requirements. Learn how to meet challenges, overcome obstacles, and transform lives through “Growing Weeders into Leaders.” Jeff nudges front-line supervisors, managers, CEOs and other organizational leaders to their next level through his W.A.T.E.R. practices. Spend all day with Jeff in this Advanced Crew Manager Certification training and learn how to make your team better by helping them grow.

CEUs: 7 = ISA: A, Bm/5.5 = LA

About Jeff McManus

Jeff McManus has a deep passion in cultivating the green industry’s greatest asset – its team members. In order to have a motivated staff willing to buy into a vision and work as a team, it is essential to grow “Weeders into Leaders.” His message rings true for any industry, supervisor, manager, leader or owner looking to GROW a high-performance and dedicated workforce. Jeff

has designed a professional development plan for his Weeders called W.A.T.E.R. – a replicable training program that guides each workforce member toward understanding the power of their personal potential. Jeff holds Bachelor of Science in Landscape and Ornamental Horticulture from Auburn University and is a PGMS Certified Grounds Manager and Certified Arborist. He has spoken to and worked with Caterpillar Inc, the Biltmore Estates, Leadercast, PGMS, as well as worked with many universities in Leadership development.



Wednesday & Thursday, Jan. 18-19, 2017

8:00 am - 4:00 pm

Advanced Residential Paver Technician (ARPT) Course

Greg Ambrose, Hardscape Instructor, Fairlawn Consulting

The Advanced Residential Paver Technician (ARPT) Course provides classroom based training in residential paver installations and covers some of the hottest topics in outdoor living space design and construction, specifically specialty applications such as

- raised and multi-level patios
- fireplaces
- fire pits
- grills
- outdoor kitchens
- pool decks
- permeable interlocking concrete pavement

It is recommended (but not required) that participants have completed the ICPI Concrete Paver Installer Course prior to attending this two-day course. A Residential Paver Technician designation can be earned by meeting additional requirements. Course content includes overlays, multi-levels, fireplaces, grills, outdoor kitchens, pool decks, material calculation, and advanced business practices. **Limit 15.**

PESTICIDE CERTIFICATION DAYS review the Virginia Pesticide Manuals for horticulture staff working for retailers and production farms (garden center, forestry, greenhouse, nursery), for landscape services (city parks, lawn care, landscape maintenance) or for turfgrass maintenance (golf courses, sod farms or sports fields). Virginia pesticide regulations define these types of jobs and assign a specific pesticide category for each type of applicator.

Each review day focuses on different study manuals. Commercial applicators working in lawn and landscape should attend Wednesday session to review the Ornamental and/or Turf Pest Control manuals. First-time applicators and employees of production nurseries, greenhouses or sod farms should attend on Thursday to review the *Applying Pesticide Correctly* manual.

Job Type	Pesticide Category	Private or Commercial	MAHSC Training Day	VA Pesticide Study Manuals are included for each registrant. Manuals distributed on the day of class.	Study Manual
Experienced Landscaper	3A Ornamentals	COMMERCIAL Works on many properties	Wednesday		Ornamental Pest Control Manual #456-223
Experienced Lawn Care, Golf, Sports Field	3B Turfgrass	COMMERCIAL Works on many properties	Wednesday		Turf Pest Control Manual #456-217
Beginning Applicator	60 Registered Technician	COMMERCIAL Works on many properties	Thursday		Applying Pesticides Correctly Core Manual #456-210
Forestry Grower	90 Food, Forestry Crops	PRIVATE Works on employer's property only	Thursday		Applying Pesticides Correctly Core Manual #456-210
Greenhouse or Nursery Grower	91 Ornamental Crops	PRIVATE Works on employer's property only	Thursday	Applying Pesticides Correctly Core Manual #456-210	

Wednesday, Jan. 18, 2017

8:00 am - 4:00 pm

Training in Ornamental Pest Control (3A) & Turf Pest Control (3B) for Commercial Applicators

Includes breaks as scheduled by teaching team.

\$70 materials fee. LIMIT 50.

CEUs: ISA: 3 = A, C, M; .75 = U; 1.75 = Bs; 1.25 = Bp/5.75 = LA:H

Thursday, Jan. 19, 2017

8:00 am - 3:45 pm

Training in Applying Pesticide Correctly for Commercial Category 60 and Private Categories 90 and 91

Includes breaks as scheduled by teaching team.

\$35 materials fee. LIMIT 50.

Friday, Jan. 20, 2017

8:00 am - 12:00 pm

Pesticide Applicator Exams

Select appropriate category tests when registering.

Pesticide Certification Review Teaching Team:

Laura Maxey-Nay, Extension Agent, Hanover County, VCE

Stephanie Romelczyk, Extension Agent, Westmoreland County, VCE

Ed Olsen, Extension Agent, Henrico County, VCE

Cyndi Wyskiewicz, Extension Agent, City of Portsmouth, VCE

Anton Goodwyn, Investigator, VDACS Office of Pesticide Services

How to Apply for VA Pesticide Certification Exams

COMMERCIAL APPLICATORS:

- ▶ Register with VDACS (use the following steps):
 - By December 20, 2016, submit application + required fee to: VDACS Office of Pesticide Service (OPS), CLRT Unit
 - Training is offered January 18 & 19, 2017
 - PO Box 526, Richmond, VA 23218-0526. After approval you will receive a letter authorizing you to take VDACS exams.
 - Before testing, Registered Technicians require 40 hours of education and training administered by a commercial applicator, whose certificate number must be included on the VDACS testing application.
 - Commercial applicators need to verify a minimum of 12 months of pesticide experience or education.
 - Questions: Call VDACS OPS Unit at 804-786-3798.
- ▶ Select CORE, 2, 3A, 3B, 5A, 6, 10, 60 on MAHSC registration.
- ▶ On test day, bring VDACS authorization letter, photo ID, calculator and pencil. No FAX is available—you must have letter in hand.

PRIVATE APPLICATORS:

- ▶ Select Private 90, 91 on MAHSC registration form.
- ▶ No pre-approval required from any state agency.
- ▶ Bring a photo ID, calculator and pencil to exam.

MAHSC applied to PESTICIDE RECERTIFICATION agencies in VA, DC, MD, and NC for approval for this program. In Virginia, MAHSC is seeking approval for 90 Forestry, 91 Ornamentals, 2 Forestry, 3A Ornamentals, 3B Turfgrass, 5A Aquatics, 6 Right-of-Way, 8 Public Health, 10 Education & Research and 60 Registered Technician. Check www.mahsc.org pesticide tab for updates and category specifics. To recertify, you must pay MAHSC registration, attend classes all day, fill out your state's paperwork correctly, and pay state renewal fees when due. Renewal fees will be billed directly to you by your state's pesticide agency during the renewal year.
\$35 materials fee. NO LIMIT.

Thursday, January 19th, 2017



7:45 - 8:00am WELCOME & INTRODUCTION

8:00 - 9:00am

Pollinator Protection and Update on Pests of Dwellings

Eric Day, *Manager, Insect ID Lab, Virginia Tech*

The decline of pollinating insects and honey bees has raised concern about protecting pollinators. Who are the pollinators and what can be done to protect them and what can we do to safely control pests in the landscape.

8:00 - 10:15am EXTENDED SESSION

Pesticide Safety – Protecting the Applicator, the Public, and the Environment

Robert Christian, *Investigator, VDACS Office of Pesticide Services*

This extended session provides in depth information to keep you, your coworkers, and the public safe when you are handling or applying pesticides. Essential topics include PPE, spill management, and proper equipment choice. Covers potential impacts of applications to the environment and how to minimize harm.

9:15 - 10:15am

Update on Pests of Dwellings and Landscapes

Eric Day, *Manager, Insect Identification Lab, Virginia Tech*

New insect and mite pests and new control methods as well as a review of pests in 2016 with a look at what to expect in 2017.

10:30 - 11:30am

VDACS & Legal Update

Rohan Williams, *Compliance Manager, VDACS Office of Pesticide Services*

What's new in pesticide regulations? How will these changes alter your day-to-day pest management strategy? Hear the latest from our state pesticide authority with updates coming down from federal departments in the EPA.

11:30 am - 11:45 pm CATEGORY 8 APPLICATORS PICKUP LUNCHES AT JEFFERSON

11:45 am - 12:30 pm

Usual and Unusual Pollinators and Their Value to the World

Megan Tierney, *Extension Agent, Yorktown, Virginia Cooperative Extension*

Learn about the biology of ecosystems and why we might want to think more before we spray – even with the threat of Zika.

CEUs: .75 = ISA: A, C, M, Bp

11:30 am - 12:00 ALL OTHER CATEGORIES PICKUP LUNCHES AT VA BALLROOM

11:45am - 1:15pm Open to ANY Pesticide Category

Integrated Pest Management

Michael Andruczyk, *Extension Agent, Chesapeake, Virginia Cooperative Extension*

A look at different techniques used in organic gardening and how they can be used in regular landscape situations to give alternatives, and possibly create a niche for businesses.

CEUs: 1.5 = ISA: A, U, C, M, Bp

1:30 - 2:30pm

Plant Pathology Update

T. Mike Likins, *Extension Agent, Chesterfield County, Virginia Cooperative Extension*

Hear the latest information from the world of plant pathology and disease control and get updates on familiar and emerging diseases that affect ornamental plants in the landscape and nursery settings.

2:45 - 3:45pm

Selecting Chemicals for Weed Control & Suppression

Dave Lawson, *Branch Manager, Landscape Supply of VA*

With so many products available for weed control, choosing the best option for an application can be tricky. Hear the latest in pre-emergent applications, in season treatments & new products available for putting your weed issues to bed, and learn what factors should be considered when making your choice.

3:45 - 4:00pm PAPERWORK COLLECTION and VALIDATION

Speaker Directory

Greg Ambrose

(Located on page 21)
Hardscape Instructor
Fairlawn Consulting

Michael Andruczyk

(Located on page 18)
Horticulture Agent - Chesapeake
Virginia Cooperative Extension
757-382-6348
mikeand@vt.edu
www.cityofchesapeake.net/
Government/City-Departments/
Departments/agriculture-virginia-
cooperative-extension.htm

Brie Arthur

(Located on page 7)
Communicator and Consultant
Brie Arthur Communications,
Growing a Greener World TV
Brienne.gluvna@gmail.com
www.BrieGrows.com

Pam Beck

(Located on page 11)
Garden Writer
919-556-3066
pambeckgardens@gmail.com
www.pambeckgardens.com

Mike Brucato

(Located on page 12)
Supervisor - Electric Transmission
Forestry
Dominion Virginia Power
804-257-4907
mike.brucato@dom.com

Ruth Burch

(Located on page 17)
The Butterfly Lady
Virginia Native Plant Society,
Butterfly Society of Virginia,
Virginia Beach Master Gardeners
rebburch@verizon.net

Lee Butler

(Located on page 9)
Extension Coordinator
North Carolina State University
919-513-3878
elbutler@ncsu.edu
turfpathology.plantpath.ncsu.edu

Marie Mims Butler

(Located on page 13)
Horticulturist
Virginia Zoo, retired

Yolima Carr

(Located on page 11)
Curator of Gardens & Grounds
Hermitage Museum & Gardens
757-423-2052
ycarr@thehermitagemuseum.org
www.thehermitagemuseum.org

Robert Christian

(Located on page 17)
Investigator
VDACS Office of Pesticide Services
757-334-3966
robert.christian@vdacs.virginia.gov

David Close

(Located on page 12)
Consumer Horticulture and
Master Gardener Specialist,
Department of Horticulture
Virginia Tech
540-231-4026
dclose@vt.edu
blogs.lt.vt.edu/mastergardener/-†

Ellen Colodney

(Located on page 9)
President
Wetland Plant, Inc.
252-482-5707
ellen@wetlandplantsinc.com
www.wetlandplantsinc.com

Vincent Cotrone

(Located on page 11)
Extension Urban Forester Penn
State University
570-825-1701
Vjc1@psu.edu

Andrea Davis

(Located on page 11)
ANR-Horticulture Extension Agent,
Virginia Beach
Virginia Cooperative Extension
757-385-4769
awise@vt.edu
offices.ext.vt.edu/virginia-beach/
index.html

Eric Day

(Located on page 17)
Manager
Virginia Tech Insect ID Lab
540-231-4899
idlab@vt.edu
www.insectid.ento.vt.edu

Jeff Derr

(Located on page 9)
Professor of Weed Science
Virginia Tech - Hampton Roads
Agricultural Research & Extension
Center
jderr@vt.edu
www.arec.vaes.vt.edu/hampton-
roads/index.html

Jack Erwin

(Located on page 8)
Landscape Coordinator
City of Norfolk
jack.erwin@norfolk.gov

Laurie Fox

(Located on page 18)
Horticulture Associate
Virginia Tech Hampton Roads
Agricultural Research & Extension
Center
757-363-3807
ljfox@vt.edu
www.arec.vaes.vt.edu/hampton-
roads/index.html

John Freeborn

(Located on page 12)
Assistant State Master Gardener
Coordinator
Virginia Tech
540-231-3083
jfreebor@vt.edu

Susan French

(Located on page 9)
City Arborist
City of Virginia Beach
757-385-4461
sfrench@vbgov.com
www.vbgov.com/government/
offices/green/urban-forestry/
Pages/default.aspx

Speaker Directory

Anton Goodwyn

(Located on page 22)

Investigator

VDACS

Anton.Goodwyn@vdacs.virginia.gov

Jason Heizer

(Located on page 8)

Local Manager

Bartlett Tree Service

757-897-6364

jheizer@bartlett.com

www.bartlett.com

Frank Hudik

(Located on page 19)

Division of Utility & Railroad

Safety

Virginia State Corporation

Commission

(804) 371-9980

frank.hudik@scc.virginia.gov

Shereen Hughes

(Located on page 18)

Virginia Coordinator, Chesapeake

Bay Landscape Professional

Program, Assistant Director,

Wetlands Watch

shereen.hughes@wetlandswatch.org

www.wetlandswatch.org

Mark Jones

(Located on page 6)

Owner & Mycologist

Sharondale Mushroom Farm

434-296-3301

info@sharondalefarm.com

www.sharondalefarm.com

Steven Kean

(Located on page 20)

Virginia State Trooper

Dr. Robert Lyons

(Located on page 13)

Professor Emeritus - Landscape

Horticulture

University of Delaware

rlyons@udel.edu

Kim Mack

(Located on page 12)

Lab & Research Specialist,

Horticulture

Tidewater Community College

kmack@tcc.edu

Sherry Kern

(Located on page 9)

ISA Certified Arborist

Tidewater Community College,

Virginia Beach Master Gardener

757-427-2388

ckern1@cox.net

T. Mike Likins

(Located on page 11)

Plant Pathologist, Extension

Agent, Chesterfield County

Virginia Cooperative Extension

LikinsM@chesterfield.gov

Laura Maxey-Nay

(Located on page 22)

Agricultural Extension Agent,

Hanover County

Virginia Cooperative Extension

804-752-4307

Lmaxey-nay@vt.edu

www.ext.vt.edu

David McCall

(Located on page 11)

Research Associate

Virginia Tech Dept. of Plant

Pathology

dsmccall@vt.edu

Jeff McManus

(Located on page 18)

Director of Landscape, Airport

and Golf Services

University of Mississippi

sweetteaservices@yahoo.com

www.jeffmcmannusspeaking.com

John Moss

(Located on page 8)

Councilman

City of Virginia Beach

Joe Murray

(Located on page 11)

Consulting Arborist & Educator

Tree Literacy, LLC

murray@treebio.com

www.treebio.com

Michael Nash

(Located on page 20)

Law Enforcement Liaison

Virginia DMV

michael.nash@dmv.virginia.gov

Adam Nichols

(Located on page 7)

Agricultural Specialist

Virginia Tech Hampton Roads

Agricultural Research & Extension

Center

adnichol@vt.edu

Ed Olsen

(Located on page 22)

Horticulture Extension Agent -

Henrico Co.

Virginia Cooperative Extension

Brian O'Neil

(Located on page 9)

Director of Horticulture

Norfolk Botanical Garden

757-441-5830

Brian.Oneil@nbgs.org

www.norfolkbotanicalgarden.org

Jim Orband

(Located on page 12)

Senior Extension Agent Emeritus

Retired, Virginia Cooperative

Extension

jorband@vt.edu

Charles Peacock

(Located on page 8)

Professor

North Carolina State University

919-515-7615

Charles_Peacock@ncsu.edu

www.turffiles.ncsu.edu

Aaron Phifer

(Located on page 6)

Techniseal

Speaker Directory

Micah Raub

(Located on page 7)
Program Coordinator
VDACS Office of Pesticide Services
804-786-4845
micah.raub@vdacs.virginia.gov
www.vdacs.virginia.gov

Barry B. Robinson

(Located on page 7)
Horticulturist
540-230-1695
SustainAg@gmail.com

Stephanie Romelczyk

(Located on page 22)
ANR Extension Agent,
Westmoreland County
Virginia Cooperative Extension
804-493-8924
sromelcz@vt.edu
Offices.ext.vt.edu/westmoreland

Dr. Peter Schultz

(Located on page x)
Entomologist & Director
Virginia Tech Hampton Roads
Agricultural Research & Extension
Center
757-363-3907
schultzp@vt.edu
www.ares.vaes.vt.edu/hampton-roads/index.html

Justin Shafer

(Located on page 8)
Environmental Program
Administrator
City of Norfolk
justin.shafer@norfolk.gov

Clinton Shettle

(Located on page 19)
Enforcement & Field Operations
Supervisor
VDACS Office of Pesticide Services
804-786-8943
clinton.shettle@vdacs.virginia.gov

Vincent Simeone

(Located on page 12)
Horticulturist, Author
vasimeone@aol.com
www.vincentstimeone.com

Peggy Singlemann

(Located on page 12)
Director of Horticulture
Maymont Foundation
804-358-7166
psinglemann@maymont.org
www.maymont.org

Scott Sjolander

(Located on page 17)
Associate Educator
Penn State Extension in Crawford
814-350-7749
sas305@psu.edu
Extension.psu.edu/natural-resources/forests/urban-community

Janet Spencer

(Located on page 21)
Extension Agent - Agriculture &
Natural Resources - Isle of Wight
Virginia Cooperative Extension
757-365-6256
jaashle2@vt.edu

JP Teig

(Located on page 9)
Territory Manager
Belgard
jp.teig@oldcastle.com
www.belgard.com

Megan Tierney

(Located on page 18)
Horticulture Agent - Yorktown
Virginia Cooperative Extension
757-890-4940
megank@vt.edu
www.yorkcounty.gov/home/virginiacooperativeextension.aspx

Gary Umphlett

(Located on page 11)
Captain
Virginia Beach Fire Department

Martha Walker

(Located on page 19)
Community Viability Specialist
Virginia Cooperative Extension;
Virginia Tech
434-766-6761
walker53@vt.edu

Eileen Walsh

(Located on page 10)
Tree Steward
Virginia Beach Master Gardener
www.vbmg.org

Sheri White

(Located on page 7)
Production Planner
White's Nursery &
Greenhouses, Inc
757-487-1300
sheri@whitesnursery.com
www.whitesnursery.com

Rohan Williams

(Located on page 19)
Compliance Manager
VDACS Office of Pesticide Services
804-371-8485
rohan.williams@vdacs.virginia.gov
www.vdacs.virginia.gov

Cyndi Wiskiewicz

(Located on page 22)
Horticulture Extension Agent -
Portsmouth
Virginia Cooperative Extension
757-393-5314
cyndiw@vt.edu