



Maryland Nursery, Landscape, and
Greenhouse Association and the
University of Maryland Extension present

CHESAPEAKE GREEN 2020

AN ANNUAL HORTICULTURE SYMPOSIUM

A premiere two day industry-wide education and
pesticide recertification conference

**Wednesday, February 19 and
Thursday, February 20**

**Maritime Institute,
Linthicum Heights, MD**

FEATURING

- *Keynote Speaker, Dr. Charlie Hall,
Texas A & M University*
- *Engaging Breakout Sessions*
- *Pesticide Recertification*
- *Vendor Showcase and Networking*
- *MNLGA Scholarship Fund Annual Silent Auction*



*Three ways to register: by fax,
mail or online at www.mnlg.org*

Sponsored by



MARYLAND
NURSERY, LANDSCAPE
AND GREENHOUSE
ASSOCIATION, INC.



**UNIVERSITY OF
MARYLAND
EXTENSION**

CHESAPEAKE GREEN 2020

Calling all Horticulture Professionals...Join us for Chesapeake Green 2020 – A Horticulture Symposium!

Chessie Green, as it is known within the industry, is a two-day event packed full of engaging and informative horticulture education. The symposium will be held on February 19 and 20, 2020 at the Maritime Institute. We are proud to be celebrating Chessie Green's 17th year! Come for the great education and enjoy the networking, vendor showcase, and silent auction (to benefit scholarship).

On Day 1, February 19th, Dr. Charlie Hall, professor at Texas A & M University, and Chief Economist for AmericanHort, will provide the keynote address. In his keynote he will offer a "State of the Industry" and explore where we are as an industry, the economic climate that we are facing, and much more. Dr. Hall will also provide us with a great breakout session on an economic perspective of the green infrastructure movement. Join us in welcoming Dr. Hall to Chessie 2020!

Following Dr. Hall's keynote, attendees will have the option of participating in any of five concurrent educational tracks, divided into nursery grower, greenhouse grower, landscape contractor, retail garden center, and business management.

These concurrent tracks are full of industry relevant information for all levels of employees as well as new dynamic speakers that present different takes on industry topics.

Return for Day 2 on February 20th for full ornamental horticulture pesticide recertification PLUS nutrient management certification and Maryland's turf management recertification.

- Pesticide recertification credits have been applied for in the following states: MD, VA, WV, PA, and DC.

- MDA Pesticide Credits

- Day 1: 8 Credits (2, 3A, 3B, 3C, 5, 8, 10, and 13)

- Day 2: 8 Credits (2, 3A, 3B, 3C, 5, 8, 10, and 13)

- WV Pesticide Credits

- Day 1: 4 Credits (4A and 4B)

- Day 2: 11 Credits (4A and 4B)

Additional credits applied for include:

- MD Certified Professional Horticulturist: 1 CEU for each day attended

- MDA (Nutrient Management, PFA, Turf...etc.): At least 2 CEU's for PFA's and further credits pending

- MD Licensed Tree Expert: Pending

- MAC-ISA: Pending

- Chesapeake Bay Landscape Professional: Multiple sessions approved for CEU's; Posted on the MNLGA website

- Once finalized, all credits will be posted on the MNLGA Chesapeake Green webpage, www.mnlga.org

See our webpage, www.mnlga.org – select the Chessie 2020 tab – for more details. This webpage includes all conference materials, including session descriptions, speaker biographies, hotel information, directions, registration materials, sponsor listings, sponsor web-links, and more.

Hotel reservations may be made at the conference facility, the Maritime Institute and Conference Center. Call **866-900-3517** or make reservations online at www.mccbwi.org. The room rate is \$149 per night plus taxes and includes a full dinner and breakfast. Use the conference group name 'MNLGA' and mention the Chesapeake Green conference.

Registration

*Please pre-register by **February 3, 2020**. You may also register online at www.mnlga.org, select the Chesapeake Green tab.*

Company (please print) _____ Address _____
City _____ State _____ Zip _____
Phone _____ E-mail _____

Registration is \$115 for MNLGA members per person per day. Registration for non-members by February 3 is \$155.

Late registration (anyone after February 3) and walk-ins are \$165 per person per day. Student rate: \$25-present student ID at registration.

Lunch and snack breaks are included. (Please let the MNLGA office know if you have any dietary restrictions.)

Names of Registrants	Day 1	Track*	Day 2	Track**
1 _____	<input type="checkbox"/>	_____	<input type="checkbox"/>	_____
2 _____	<input type="checkbox"/>	_____	<input type="checkbox"/>	_____
3 _____	<input type="checkbox"/>	_____	<input type="checkbox"/>	_____
4 _____	<input type="checkbox"/>	_____	<input type="checkbox"/>	_____

*Indicate preferred Day 1 Track: **R**: Retail; **G**: Greenhouse, **N**: Nursery, **L**: Landscape; **B**: Business Management

Indicated preferred Day 2 Track for Afternoon Sessions: **N/L: Nursery and Landscape; **T**: Turf Management; **TNM**: Turf Nutrient Management;

NM: Nutrient Management; **A**:Aquatics

Total Enclosed: \$ _____

Credit Card Payment: ☐ Visa ☐ MasterCard Card # _____ Exp. date _____ Security Code (3 digits) _____

Billing address of card: _____

Signature: (All credit card charges require a signature) _____

Please make check payable to: **MNLGA** and mail to **P.O. Box 726, Brooklandville, MD 21022**

Fax registration with credit card information to: **410-296-8288**. Questions? Please call the MNLGA Office at **410-823-8684**.

Please note if your company is a member of the MNLGA, all employees receive the member discount pricing. In the event that the total amount due is miscalculated, the MNLGA will adjust the amount and charge the registrant for the corrected amount. Sorry, there are no refunds after February 3.



Day 1 – February 19, 2020

7:30 - 8:15 a.m.

Registration and Continental Breakfast

Vendor networking and preview the silent auction.

Opening Remarks

8:15 - 8:30 a.m.

Opening Remarks, Mr. Larry Hemming – MNLGA President

Keynote

8:30 - 9:30 a.m.

State of the Green Industry Heading into 2020

Keynote speaker: Dr. Charlie Hall, Texas A & M University

The MNLGA is proud to welcome our keynote speaker, Dr. Charlie Hall to Chesapeake Green 2020! Dr. Charlie Hall grew up in the industry on a nursery in western North Carolina. Although an economist by training, he is currently a Professor in the Department of Horticultural Sciences at the Texas A & M University and also holder of the Ellison Chair in International Floriculture. He currently serves as Chief Economist for AmericanHort and as a Co-Chair of the Advisory Council for Seed Your Future. Dr. Hall's expertise in the production and marketing of Green Industry crops is nationally recognized in academia and among the horticultural clientele he serves. His major research, teaching, & extension areas of specialization include strategic management, market situation/outlook, cost accounting, and financial analysis for Green Industry firms. He is particularly known for the enthusiasm, passion, and intensity he exhibits when speaking. In his keynote he will be giving a "State of the Industry" and touching on where we are as an industry, the economic climate that we are facing, and much more. Dr. Hall will also be providing our group with a great breakout session on an economic perspective of the green infrastructure movement. We hope you will join us in welcoming Dr. Hall to Chessie! .



Plenary Wrap-Up

3:15 - 4:15 p.m.

Maryland's Industrial Hemp Pilot Program: A Panel Discussion on the Future of Hemp Production in Maryland

Industry Hemp Panel: Mr. Jim Drews, Maryland Department of Agriculture, Mr. John Murphy, Murphy Massey LLC, Ms. Tami Van Gaal, Griffin CEA Division, Mr. Barry Pritchard, SunX Analytical Inc., Dr. Andrew Ristvey, University of Maryland Extension, Dr. Nicole Fiorellino, University of Maryland Extension

Now that the cultivation and commercialization of industrial hemp and hemp products in the United States has been again made legal after decades of banned production, what is its future? Is it profitable to invest in hemp production? How will the federal laws regulating hemp affect growers and processors? This panel discussion will cover the intricate issues concerning production of this new crop and the potential profitability along with answering questions that are commonly asked.

Plan to support the MNLGA's Scholarship Fund by bidding at its Annual Silent Auction on February 19!



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mail or online at www.mnlga.org

DAY 1 FEBRUARY 19

7:30 – 8:15 a.m. Registration and Continental Breakfast

8:15 – 8:30 a.m. Opening Remarks, Mr. Larry Hemming
MNLGA President

8:30 – 9:30 a.m. Keynote, Dr. Charlie Hall,
Texas A & M University

Keynote

State of the Green Industry Heading into 2020

8:30 - 9:30 a.m.

Keynote speaker: *Dr. Charlie Hall, Texas A & M University*

In this talk, Dr. Hall will discuss which economic indicators are most pertinent to green industry businesses and how to interpret them. Participants in this session will also learn when the next economic downturn is likely to occur, and most importantly, what they can be doing right now to prepare for the downturn (i.e. what to include in their contingency plan). Charlie's non-partisan view on the economy provides the backdrop you need going into your winter planning mode and gives you the confidence to pull the right strategic strings to enhance your profitability this year!

Nursery Grower

Making the Most of New Plants – How to Evaluate and Manage New Introductions for Greater Profitability

10:00 - 10:55 a.m.

Ms. Natalia Hamill, Bailey Nursery

With an overwhelming number of new plant introductions every year, how do you know which ones will be winners for your company? For starters, the best new genetics are usually introduced through a plant brand. Learn why brands are an integral part of new plant introductions, how brands attract the best genetics and how you can leverage branded products with your customer base for greater profitability.

Ramorum Blight/Sudden Oak Death Update

11:00 - 11:55 a.m.

Dr. Karen Rane, University of Maryland Plant Diagnostic Laboratory

It's been more than 20 years since *Phytophthora ramorum* emerged as one of the most destructive pathogens of forest trees in the western US, as well as causing leaf blight on a variety of popular ornamental shrubs. Despite years of federal and state regulatory action to contain the spread of the disease, it remains one of the most costly issues nursery producers may face. In this presentation, you'll learn the latest information on recent detections, and the challenges faced by regulators and nursery producers to minimize losses.

Using Drones as Tools in the Nursery

1:05 - 2:00 p.m.

Mr. Stanton Gill, University of Maryland Extension

Mr. Kirk Floyd, KDrone Services

Some people embrace new technology while others fear it. Drones are not "Terminators" like the 1984 Terminator movie! They are tools that have the capability to make your operation more efficient. Come explore with Stanton and Kirk where they have gone over the last year, and where we are all headed with this new technology as we move into 2020.



The Benefits of Creating and Using Compost in Nursery and Field Production

2:15 - 3:10 p.m.

Mr. Phil Westcott, Key-City Compost

Mr. Benny Erez, Eco-City Farms

Plants cannot thrive without nutrients and organic matter. Compost is a superior source of both, capable of improving production of crops as seedlings in nurseries and mature plants in the field. In this presentation we will discuss the principles of compost making, emphasizing methods used at our own facilities. Both hot compost and vermicompost will be discussed.

Landscape Contractor

Making the Most of New Plants – How to Evaluate and Manage New Introductions for Greater Profitability

10:00 - 10:55 a.m.

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Ticks and Chiggers in the Landscape

11:00 - 11:55 a.m.

Ms. Emily Zobel, University of Maryland Extension

Ticks and chiggers are major nuisance pests, whose feeding habits can reduce productivity, and affect worker mental and physical health. Topics covered during this talk include: pest biology, personal prevention, and management. Emily will highlight new species as well as conservation management and managing the landscape.

Specimens and Unusual Plants in the Landscape

1:05 - 2:00 p.m.

Mr. Andrew Thompson, Foxborough Inc.

Andrew Thompson from Foxborough will lead attendees through a comprehensive list of plants that are hard to find and one of a kind, both large and small. He will highlight how to find them, move them, sell them, and implement them into residential design.

Great Substitutes for Problem Plants

2:15 - 3:10 p.m.

Mr. Scott Aker, The National Arboretum

Blue spruces with needle cast, cherries with leaf spot, Leyland cypress with canker—many of the most common plants in our landscapes are prone to pests and diseases. Fortunately, for each problem plant, there is a great substitute that can make the landscapes you manage more sustainable. Scott Aker, Head of Horticulture and Education at the U.S. National Arboretum in Washington, DC will share some of his favorite substitutes for problem plants and challenge you to make the bold move of replacing your worst landscape liabilities.

Greenhouse Grower

Mildew Mania: Powdery and Downy

10:00 - 10:55 a.m.

Ms. Margery Daughtrey, Cornell University

We know powdery mildews threaten roses, gerberas, and poinsettias...and they can surprise us on other crops. Downy mildews, in turn, can really zap impatiens, coleus and rose. This talk will let you know what problems to anticipate, and what chemical, biological, and genetic tools to use against these diseases.



Inventory, Scouting, & Readiness with LUNA: Empowering Data-Driven Decisions through Machine Vision

11:00 - 11:55 a.m.

Mr. Adam Greenberg, iUNU – Luna

Have you ever experienced the friction between production and sales? What causes it? Could it be that there is no single source of objective information? Ever wonder where your inventory is when you need it? Does the production team ever find an issue after it has already caused damage? Does the team ever wish it had readiness alerts for all inventory? Our industry is getting pressure from both sides leading to decreased margins and we're paying the price. It's time to explore ways to alleviate these issues.

Greenhouse IPM Jeopardy

1:05 - 2:00 p.m.

Mr. Michael Oleykowski, Syngenta Chemical

"IPM doesn't have to be boring for 200!" Michael Oleykowski will present greenhouse IPM in an engaging Jeopardy format! Basic pesticide safety and handling CORE principles are reviewed along with horticultural agronomic principles. Attendees stay engaged as three contestants vie for top prizes and participation rewards as they show their knowledge of basic pesticide safety and handling CORE principles. Round One, Round Two, and Final Jeopardy present 51 discussion points! You don't want to miss this one!

(Day 1 continued on next page)

DAY 1 FEBRUARY 19

What Growers Will Be Growing and What Garden Centers Should be Selling for 2020

2:15 - 3:10 p.m.

Mr. Brett Karp, Griffin GHSE

Mr. Paul Hartnett, Pleasant View Gardens

Join horticulture professionals, Brett Karp and Paul Hartnett, as they reveal the new trends and varieties ready for market. This session will take a look at what's new and hot for your spring sales including both seed and vegetable material. Many breeders will be covered including: Proven Winners, Syngenta Flowers, Sakata, and PanAmerican.

Retail Grower and Garden Center

A Report from the Garden Center

10:00 - 10:55 a.m.

Ms. Carrie Engel, Valley View Farms

Carrie will present what she has learned in over four decades of garden center retailing. She will go over what is trending up, what might be trending down and generally report on some of the recent changes she has seen in retailing. The presentation will include ideas on marketing through seminars and garden clubs, social media, Instagram and other outlets. Carrie Engel is a long-time employee at Valley View Farms, managing retail plant sales. She works with Valley View Farms' own grower and greenhouses as well as many of the best local growers in the region.

Top Ten Store Renovation Opportunities for 2020

11:00 - 11:55 a.m.

Ms. Judy Sharpton, Growing Places Marketing

Don't let spring 2020 sneak up on you! You have lots of ideas for renovations that will make your store better in time for the spring rush. Too many ideas can invite the paradox of choice to set in. The result: Spring sneaks up on you and you've made none of your planned renovations! In this program, Judy Sharpton will describe ten (maybe 12!) targeted renovations you can initiate right now within your budget and in time for Spring 2020. Bring a site plan and photos of the problem areas you have already identified for individual consultations after the scheduled programs.



Store Design to Facilitate Consumer-Interest Based Retail

1:05 - 2:00 p.m.

Ms. Judy Sharpton, Growing Places Marketing

Garden retailer and writer C. L. Fornari, in an article in an industry publication, has pointed out that calling our customers "gardeners" leaves out the majority of the potential customers whose interests run the gamut of categories offered by the garden center - edibles, pollinators, sustainable outdoor activities, indoor gardens, family activities, good health and wellness. Creating space for these interests is often a labor-intensive series of store sets that often disrupt the store's ability to function for retail customers. Creating space for these interest-based events and products allows the garden center to offer products and services to interest-driven customers year round with minimum expense and disruption. Join Judy Sharpton to learn how "Concrete and Casters" can work magic in your store's event-based marketing program and see examples of two stores that have made this renovation work. *Bring a site plan and photos of the problem areas you have already identified for individual consultations after the scheduled programs.*

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Business Management

Youth Foundations in the Green Industry

10:00 - 10:55 a.m.

Mr. Jerry Kelley, Parkside High School

Parkside CTE Horticulture (Salisbury MD) attracts and prepares students for careers and post-secondary studies in green industry pursuits. Students operate and manage the A+ Garden Centre, the largest high school greenhouse business in U.S. Students focus on inquiry-based research, campus and community developmental projects, and certification in public horticulture. Jerry will elaborate on what it takes to keep students and our youth involved and engaged in our ever-changing industries.

An Economic Perspective of the Green Infrastructure Movement

11:00 - 11:55 a.m.

Dr. Charlie Hall, Texas A & M University

In this talk, Dr. Hall will discuss the broad scope of ecosystem services provided by green (versus gray) infrastructure and the economic contributions they make to local and regional economies. He will also outline the influence of the biophilic design movement, the monetary value of green capital and why it matters from an economic development perspective,

and the potential impacts of an impending recession in the next couple of years on the capital expenditures on green infrastructure projects.

H2A, H2B and Overtime: An Overview + Q&A

1:05 - 2:00 p.m.

Mr. Benjamin Searle, US Department of Labor

Are you considering using the H2A or H2B program? Are you up to speed on the federal rules regarding overtime pay? In this presentation, a representative from the U.S. DOL Wage and Hour Division will discuss the FLSA, H2B and H2A compliance issues most frequently identified in the nursery, landscaping and greenhouse industries. Questions will be encouraged throughout the presentation.

DOT and You

2:15 - 3:10 p.m.

Mr. Jason Lambert, Maryland State Police – Commercial Vehicle Enforcement Division

This presentation covers recent changes to the regulations including Electronic Logging Devices (ELD's) and hours of service. Jason will also cover the files that are required to be maintained at the company's office including driver qualifications, hours of service, drug and alcohol testing, and vehicle maintenance.



Plenary Wrap-Up

Maryland's Industrial Hemp Pilot Program: A Panel Discussion on the Future of Hemp Production in Maryland

3:15 - 4:15 p.m.

Industry Hemp Panel: Mr. Jim Drews, Maryland Department of Agriculture, Mr. John Murphy, Murphy Massey LLC, Ms. Tami Van Gaal, Griffin CEA Division, Mr. Barry Pritchard, SunX Analytical Inc., Dr. Andrew Ristvey, University of Maryland Extension, Dr. Nicole Fiorellino, University of Maryland Extension

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DAY 2 FEBRUARY 20

7:30 – 8:00 a.m.

Registration and Continental Breakfast

8:00 – 8:10 a.m.

Opening Remarks

Nursery Grower and Landscape Contractor

Glyphosate – Is it Safe? The Science Behind The Safety

8:10 - 9:00 a.m.

Dr. Donna Farmer, Bayer Crop Science

Dr. Donna Farmer, a toxicologist from Bayer Crop Science will be talking about the science behind the safety of glyphosate. With all that is in the news about glyphosate and its safety – it's time to hear the science behind it all, and Dr. Farmer is the one to deliver it!

Spotted Lanternfly in MD

Spotted Lanternfly: The PA Perspective

9:00 - 9:55 a.m.

Ms. Dana Rhodes, Pennsylvania Department of Agriculture

Ms. Kim Rice, Maryland Department of Agriculture

One half of this presentation will be an update on the spotted lanternfly program in Maryland. Kim Rice will discuss the why and what's of the program: Why is it important? What is MDA doing about the spotted lanternfly (i.e. outreach, survey, treatment)? What is the quarantine? What can I do about it?

The other half of this presentation will be Pennsylvania's perspective on spotted lanternfly. Dana Rhodes will discuss how PA has approached coordination of agencies and universities and partnerships formed. She will also provide an update on research, operations, and compliance efforts such as the permit system. She will further discuss why SLF is a threat and why everyone has a role to perform.

Knockout Natives

10:00 - 10:55 a.m.

Mr. Sam Hoadley, Mt. Cuba Center

Join Sam Hoadley, the Manager of Horticultural Research at Mt. Cuba Center, as he highlights knockout native species and cultivars from their trials. Top performers and favorites of Coreopsis, Baptisia, Monarda, Phlox, and Helenium represent some of the best native plants for the mid-Atlantic region. Sam will discuss their horticultural and ecological performance and will share important information on varieties that will make beautiful additions to your garden.

Keep an eye out for future reports featuring the following genera that are currently being evaluated at Mt. Cuba Center's Trial Garden: *Carex*, *Echinacea*, *Hydrangea arborescens*, and *Vernonia*.

The Misapplications of Pesticides – How It Can Get You in Trouble and Why They May Fail

11:00 – 11:55 a.m.

Mr. Ed Crow, Penn State Extension

This presentation will discuss the importance of following pesticide label directions to avoid getting in trouble by not following them. The end result could be a failed or misapplication. This will be illustrated with examples of situations where label directions were not followed and how they could be avoided.

Why is My Tree Dying? Fine-Tuning Your Tree Diagnostic Skills

1:00 - 1:55 p.m.

Dr. Andrew Loyd, Bartlett Tree Research Laboratories

This presentation will focus on the art and science of diagnosing tree problems. As practitioners in the landscape green industry diagnosing plant problems correctly is imperative for effective management and setting client expectations correctly. Diagnostics is both an art and science, and requires a careful eye and experience to clue into answering the age-old question of "why did my tree die?" This presentation will review the art and science using a few case studies of abiotic disorders, diseases, and insects as examples.

A Downward Spiral of Tree Decline

2:00 - 2:55 p.m.

Dr. Andrew Loyd, Bartlett Tree Research Laboratories

Declines of trees are caused by a variety of biotic and abiotic factors that cause stress, loss of vigor, and reduced growth. Essentially, when there is not one major primary cause of dieback, but rather several contributing and inciting factors, we group these disorders into decline syndromes. Some declines such as white oak decline, are thought to be triggered by environmental changes in soil saturation that lead into Phytophthora root rot, which sets the stage for Armillaria root rot and stem decay that eventually cause the trees to give up and get attacked by secondary beetle borers and fungal cankers that finish the job. This presentation will focus on the theoretical concept of tree decline and discuss management implications to help prevent them from happening.

Turf Management

Overview of Broadleaf Weed Management in Turf

1:00 - 1:55 p.m.

Dr. Jeff Derr, Virginia Tech

This presentation will cover newly developed broadleaf herbicides, comparing them to existing products. Effectiveness on key perennial broadleaf weeds will be discussed. The impact

of formulation on use patterns for the active ingredients will be highlighted, along with the benefit of combination products.

Basic Turf Disease: Pick Your Best Defense 2:00 - 2:55 p.m.

Mr. Richard Buckley, Rutgers University

Fungal diseases can be troublesome for many turf managers. This talk covers the most common disease problems for landscape turf. Proper identification, symptoms and signs, epidemiology, and integrated management solutions will be discussed including all cultural, chemical and biological control options.

Nutrient Management

Composts and Their Use in Nursery and Specialty Crop Production

1:00 - 1:55 p.m.

Dr. John Lea-Cox, University of Maryland

Compost used as a soil amendment is not a new thing, even as a substrate component in floriculture and other specialty crops. More attention is being paid to compost use, especially when considering soil health. We know that not all composts are the same. What are the benefits and risks associated with using these materials? What do you look for if considering a compost and how do you utilize that in a soil or substrate plan? This talk will summarize past and present research on compost use, including studies performed at University of Maryland to determine nutrient release and components that could be utilized to manage phosphorus leaching and loss.

Industrial Hemp Nutrient Management: Results from the Maryland Hemp Pilot Program Partnerships

2:00 - 2:55 p.m.

Dr. Andrew Ristvey, University of Maryland Extension

With the passing of the 2018 Farm Bill, the cultivation and commercialization of industrial hemp in the United States was again legal, after decades of a ban on its production. In the first year of industrial hemp cultivation, University of Maryland partnered with 11 growers across the state to determine optimum nitrogen (N) and phosphorus (P) fertilization rates for industrial hemp grown primarily to produce cannabidiol (CBD).

Turf Nutrient Management

MDA Turf Nutrient Management Update 1:00 - 1:55 p.m.

Ms. Judy McGowan, Maryland Department of Agriculture

Get the latest updates for Professional Fertilizer Applicators. Judy McGowan will share some common mistakes that



applicators make, and how to best avoid them. You will also learn how to fine tune your program to be more competitive in areas where pesticides are banned.

From Start to Finish, What to do With Turfgrass to Keep it Green and Within Regulations

2:00 - 2:55 p.m.

Mr. Chuck Schuster, Retired UMD Extension Educator

When a new property becomes part of your portfolio, what is expected? A review of how one might approach this situation and even bring new techniques into existing properties. Chuck will present ideas from keeping it green using all types of inputs to staying current with the MD turf regulations.

Aquatics

Chemical Alternatives to Water Quality Improvement

1:00 - 2:55 p.m.

Ms. Kelly Billing, Water Becomes a Garden

Plants have been cleaning water bodies for millions of years. Learn how to empower them to be efficient consumers of excess nutrients, use them to reduce sediments and runoff, and plan for them to improve overall water quality. We will also review new alternatives for denitrification without chemicals. Get the know how to turn foul water clear.

Recertification Updates

Recertification Updates

3:00 - 3:30 p.m.

Ms. Kelly Love, Maryland Department of Agriculture

Mr. Baldwin Williams, District Department of Energy and Environment

Representatives from the MDA and Washington D.C. Department of Energy and Environment will present the past season's data and upcoming laws that may affect nutrient management planners and pesticide applicators. Record-keeping and training will be addressed. Attendance at this session is required for pesticide recertification credits.

SYMPOSIUM AT A GLANCE

Day 1 • February 19			
Registration and Continental Breakfast		7:30 - 8:15 a.m.	Vendor Networking
Opening Remarks	Mr. Larry Hemming	8:15 - 8:30 a.m.	
Keynote	Dr. Charlie Hall	8:30 - 9:30 a.m.	State of the Green Industry Heading into 2020
Nursery Grower	Ms. Natalia Hamill	10:00 - 10:55 a.m.	Making the Most of New Plants – How to Evaluate and Manage New Introductions for Greater Profitability <i>(joint session with Landscape Contractor)</i>
	Dr. Karen Rane	11:00 - 11:55 a.m.	Ramorum Blight/Sudden Oak Death Update
	Mr. Stanton Gill Mr. Kirk Floyd	1:05 - 2:00 p.m.	Using Drones as Tools in the Nursery
	Mr. Phil Westcott Mr. Benny Erez	2:15 - 3:10 p.m.	The Benefits of Creating and Using Compost in Nursery and Field Production
Landscape Contractor	Ms. Natalia Hamill	10:00 - 10:55 a.m.	Making the Most of New Plants – How to Evaluate and Manage New Introductions for Greater Profitability <i>(joint session with Nursery Grower)</i>
	Ms. Emily Zobel	11:00 - 11:55 a.m.	Ticks and Chiggers in the Landscape
	Mr. Andrew Thompson	1:05 - 2:00 p.m.	Specimens and Unusual Plants in the Landscape
	Mr. Scott Aker	2:15 - 3:10 p.m.	Great Substitutes for Problem Plants
Greenhouse Grower	Ms. Margery Daughtrey	10:00 - 10:55 a.m.	Mildew Mania: Powdery and Downy
	Mr. Adam Greenberg	11:00 - 11:55 a.m.	Inventory, Scouting, & Readiness with LUNA: Empowering Data-Driven Decisions through Machine Vision
	Mr. Michael Oleykowski	1:05 - 2:00 p.m.	Greenhouse IPM Jeopardy
	Mr. Brett Karp Mr. Paul Hartnett	2:15 - 3:10 p.m.	What Growers Will Be Growing and What Garden Centers Should be Selling for 2020 <i>(joint session with Retail Growers and Garden Center)</i>
Retail Growers and Garden Center	Ms. Carrie Engel	10:00 - 10:55 a.m.	A Report from the Garden Center
	Ms. Judy Sharpton	11:00 - 11:55 a.m.	Top Ten Store Renovation Opportunities for 2020
	Ms. Judy Sharpton	1:05 - 2:00 p.m.	Store Design to Facilitate Consumer-Interest Based Retail
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	Dr. Charlie Hall	11:00 - 11:55 a.m.	An Economic Perspective of the Green Infrastructure Movement
	Mr. Benjamin Searle	1:05 - 2:00 p.m.	H2A, H2B and Overtime: An Overview + Q&A
	Mr. Jason Lambert	2:15 - 3:10 p.m.	DOT and You
Plenary Wrap-Up	Mr. Jim Drews Mr. John Murphy Ms. Tami Van Gaal Mr. Barry Pritchard Dr. Andrew Ristvey Dr. Nicole Fiorellino	3:15 - 4:15 p.m.	Maryland's Industrial Hemp Pilot Program: A Panel Discussion on the Future of Hemp Production in Maryland

CHESAPEAKE GREEN 2020

Day 2 • February 20			
Registration and Continental Breakfast		7:30 - 8:00 a.m.	Vendor Networking
Opening Remarks		8:00 - 8:10 a.m.	
Nursery Grower and Landscape Contractor	Dr. Donna Farmer	8:10 - 9:00 a.m.	Glyphosate – Is it Safe? The Science Behind The Safety
	Ms. Dana Rhodes Ms. Kim Rice	9:00 - 9:55 a.m.	Spotted Lanternfly in MD Spotted Lanternfly: The PA Perspective
	Mr. Sam Hoadley	10:00 - 10:55 a.m.	Knockout Natives
	Mr. Ed Crow	11:00 - 11:55 a.m.	The Misapplications of Pesticides – How It Can Get You in Trouble and Why They May Fail
	Dr. Andrew Loyd	1:00 - 1:55 p.m.	Why is My Tree Dying? Fine-Tuning Your Tree Diagnostic Skills
	Dr. Andrew Loyd	2:00 - 2:55 p.m.	A Downward Spiral of Tree Decline
Turf Management	Dr. Jeff Derr	1:00 - 1:55 p.m.	Overview of Broadleaf Weed Management in Turf
	Mr. Richard Buckley	2:00 - 2:55 p.m.	Basic Turf Disease: Pick Your Best Defense
Nutrient Management	Dr. John Lea-Cox	1:00 - 1:55 p.m.	Composts and Their Use in Nursery and Specialty Crop Production
	Dr. Andrew Ristvey	2:00 - 2:55 p.m.	Industrial Hemp Nutrient Management: Results from the Maryland Hemp Pilot Program Partnerships
Turf Nutrient Management	Ms. Judy McGowan	1:00 - 1:55 p.m.	MDA Turf Nutrient Management Update
	Mr. Chuck Schuster	2:00 - 2:55 p.m.	From Start to Finish, What to do With Turfgrass to Keep it Green and Within Regulations
Aquatics	Ms. Kelly Billing	1:00 - 2:55 p.m.	Chemical Alternatives to Water Quality Improvement
Recertification Updates	Ms. Kelly Love Mr. Baldwin Williams	3:00 - 3:30 p.m.	Recertification Updates



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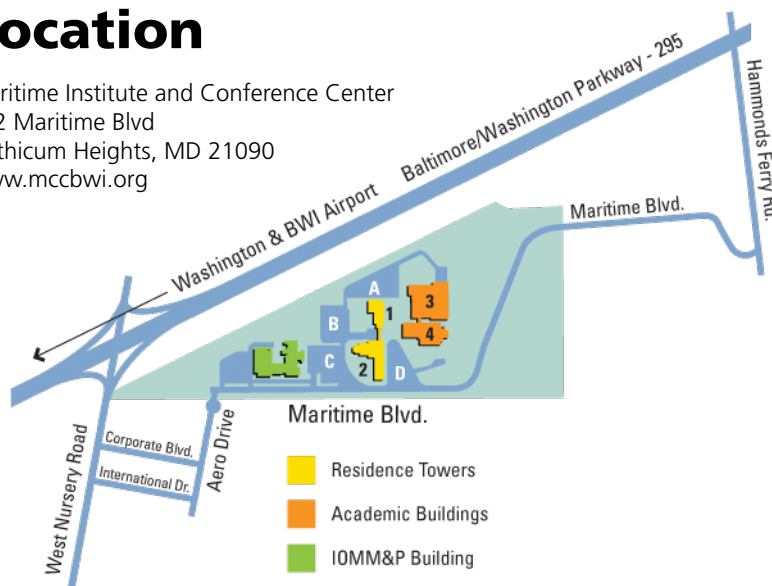


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