

Agenda

Conservation Planting Enhancements: Building Native Habitat along the Edge

C. Mourlas

- The fragmentation of mid-Atlantic forest
- Informed stewardship of woodland and open space parcels
 - Important component in the natural health of the ecologic community
- Basic methodology to successful conservation plantings and forest enhancement

Ecological Restoration in Urban and Suburban Landscapes

R. Toker

- The need for systems thinking
- Landscape connectivity in ecological restoration
 - Humans' responsibility
 - Aligning urban land use and greening policies with ecological restoration needs

Transforming Lawn to Wildlife Habitat and Productive Landscape

C. Beer

- Current lawn facts and trends
- Permaculture-based systems thinking + design approach
- Introduction of regenerative components
- Implementation
- Case study

Regulation and Permitting of Water Resource Restoration Activities

A. Der

- Clean Water Act and Other Federal regulatory criteria
- Maryland Department of the Environment and other state regulatory programs
- Nontidal versus tidal water regulation
- Maryland Forest Conservation Act and resource restoration
- Local government regulatory criteria

Restoration and the Ecologies of Ecological Engineering

P. May

- The history of the ecosystem concept in ecology and emergence of systems ecology
- Definitions and principles of ecosystem ecology and ecological engineering
- Examples of restoration through the lens of ecological engineering
- The philosophy of ecological engineering and implications in environmental accounting

Ellicott City, Maryland:

L. Lilly

A Case Study for Watershed Resiliency in the Piedmont

- Review of watershed characteristics and recent destructive floods
- Proposed and current mitigation actions
- Government, nonprofit, community and business
 - Stakeholder viewpoints
- Economy and green jobs

Restoring Natural Areas in Maryland

Live, Interactive Webinar - Friday, April 23, 2021

NON-PROFIT
U.S. POSTAGE PAID
EAU CLAIRE, WI
PERMIT NO. 2016

HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Recognize the importance of informed stewardship of woodlands and open space land.

Discuss the need for systems thinking in ecological restoration of urban and suburban landscapes.

Consider the benefits of transforming lawn to wildlife habitat and productive landscape.

Comply with federal and state regulations that impact water resource restoration activities.

Explore the philosophy of ecological engineering and how it can inform restoration.

Learn from proposed and ongoing restoration actions in a case study of watershed resiliency in Ellicott City, Maryland.



HalfMoon Education Online Learning Restoring Natural Areas in Maryland

Live, Interactive Webinar - Friday, April 23, 2021



Consider the use of conservation plantings to build habitats

Explore ecological restoration in urban and suburban landscapes

Transform lawns into wildlife habitats

Learn about regulation and permitting of water resource restoration activities

Analyze the principles of ecosystem ecology and ecological engineering

Examine an actual case study designed to improve watershed resiliency

Continuing Education Credits

Professional Engineers

6.0 PDHs

Architects

6.0 HSW CE Hours

AIA

6.0 LU | HSW

Landscape Architects

6.0 HSW CE Hours

LA CES

Pending

CBLP

6.0 CEUs

Certified Arborists

6.0 ISA CEUs (details inside)



AIA
Continuing
Education
Provider



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG

Faculty

Chris Mourlas *Residential Reforestation LLC, Native Landscapes: Environmental Services, Maryland*
Mr. Mourlas is an experienced environmental contractor with 30+ years in the restoration industry. He is a certified arborist and a Certified Chesapeake Bay professional landscaper. Mr. Mourlas has been involved in the restoration and management of hundreds of acres of forest, wetland, stream and buffer environments throughout Maryland and the Mid-Atlantic. Also, he is a certified herbicide applicator in Maryland, Delaware, Pennsylvania and Virginia. Mr. Mourlas is dedicated to comprehensive solutions to invasive species management and the re-establishment of diverse native habitat communities within multi-use urban and rural open spaces including woodland patches, stream and lake edge buffers and the “soft edge” transitional areas.

Rachel Toker *President & CEO at Urban Ecosystem Restorations in Maryland*
Ms. Toker is an experienced sustainability professional, real estate lawyer and urban policy expert with a history of working at the intersection of urban real estate development, economic development, sustainable cities, green building and infrastructure, and restoration of small-scale natural areas in the urban space. In her work as president of Urban Ecosystem Restorations (UER), a 501(c)(3) nonprofit urban land trust, she has been actively engaged in developing and implementing creative solutions to the many environmental challenges facing our urban areas. Ms. Toker received her J.D. degree, *cum laude*, from Harvard Law School, a Master in Public Policy degree from the John F. Kennedy School of Government at Harvard University, and her B.A. degree, with University Honors and Distinction, from Stanford University. Ms. Toker is currently pursuing a Master of Environmental Leadership and Environmental Management at Duke University's Nicholas School of the Environment (expected May 2022). She is also a certified Chesapeake Bay Landscape Professional, a LEED Accredited Professional, and Weed Warrior in Montgomery County (for invasive plant removal).

Carri Beer, AIA *Owner of CommONEcology Regenerative Design Studio in Baltimore, Maryland*
Ms. Beer graduated with a master of Architecture degree from Texas Tech University with special study in sustainable design. She has experience with commercial and residential projects, government clients and private residential clients. Ms. Beer became one of Maryland's first LEED Accredited Professionals in 2001 and consulted on several of the region's early LEED projects. She received her Permaculture Design Certificate from Charm City Farms in 2017 and an Advanced Permaculture Social Systems Design certification from the Permaculture Women's Guild in 2020. Ms. Beer is project architect and manager on new high performance, healthy homes and small community buildings, permaculture -based landscape design, and regenerative neighborhood planning. She focuses on creating architecture and places that are whole restorative systems and address high energy performance, building science, healthy indoor air quality, natural materials, resiliency, site and water restoration and social equity.

Andrew Der *Andrew T. Der & Associates, LLC, Environmental Consulting, Maryland*
As a regionally-recognized water resources practitioner and leader for 32 years, Mr. Der provides

regulatory and scientific expertise for public and private sector clients, with a commitment to equitable and sustainable solutions to complex projects while specializing in creative linkages between ecology and engineering. Mr. Der has been in private consulting practice since 2001. He previously completed 17 years of service with the Maryland Department of the Environment as a manager successfully leading major new initiatives to regulate and restore Chesapeake Bay water resources. His specialties include water resource permitting, compliance, assessment, Clean Water Act, wetland and waterway compliance, NPDES, TMDL, and stormwater management. Mr. Der is an appointed industry representative of the U. S. EPA Chesapeake Bay Program Executive Council Citizens Advisory Committee, Maryland Patuxent River Commission, and Montgomery County, Maryland Executive's Water Quality Advisory Commission.

Peter I. May *Assistant Research Professor, University of Maryland, Department of Environmental Science and Technology*
Professor May has a PhD degree from the University of Maryland's Marine, Estuarine, Environmental Sciences (MEES) program. He has more than 30 years of experience in the environmental sector and has a strong knowledge base in the ecological sciences working in applied restoration projects in municipal, state and federal government, NGO's and the private and academic sectors. Professor May has a comprehensive background in urban coastal ecologies, the ecology and restoration of tidal marshes, and urban stream and big river system restoration. He has applied his skills to numerous projects throughout Maryland and Washington, DC. These projects have involved applications of novel ecotechnologies as well as tidal wetland restoration planning, design, implementation and monitoring, stream and forest restoration, watershed management and neighborhood to city scale low-impact development projects in urban areas. He has a strong academic and applied background in the emerging fields and philosophies of ecological engineering, embodied energy and environmental accounting. Professor May is currently an assistant research professor at UMD's Department of Environmental Science and Technology and Affiliated Faculty in the Landscape Architecture Program.

Lori A. Lilly, CEP, CBLP *Executive Director at Howard EcoWorks, Maryland*
Ms. Lilly is a natural resource management professional with an M.S. degree in Marine Estuarine and Environmental Science and over 15 years of cumulative experience in watershed planning and implementation, project management, water quality monitoring and grant writing. She is a leader and an independent thinker with a passion for environmental issues and a demonstrated commitment to improving water resources through grassroots efforts. Ms. Lilly initiated, developed and managed a debris management program in flood-prone Ellicott City, Maryland and provides local and regional leadership for biochar soil amendments to reduce runoff and enhance the effectiveness of best management practices. Ms. Lilly founded Howard EcoWorks in 2016, to be a regional force for social and environmental change. EcoWorks engages and educates the community about environmental sustainability and restoration, while creating pathways to green jobs through workforce development programs.

Webinar Information

Log into Webinar 8:00 - 8:30 am EDT	Break 11:25 - 11:55 am EDT
Morning Session 8:30 - 11:25 am EDT	Afternoon Session 11:55 am - 3:20 pm EDT

Tuition
\$289 for individual registration
\$199 for three or more registrants from the same company at the same time.
Included with your registration: PDF seminar manual.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

Continuing Education Credit Information
This webinar offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to architects. It offers 6.0 HSW continuing education landscape architects in all states, except Florida, New Jersey, and North Carolina.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina (S-0130), and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2), §79-1.5(i)(2)). Courses approved by the AIA/CES qualify for Florida and New Jersey architects. Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.0 LU| HSW (Sponsor No. J885).

The Landscape Architect Continuing Education System has approved HalfMoon Education as a continuing education sponsor. Course approval is pending. Visit www.halfmoonseminars.org for updates under this course listing.

The Chesapeake Conservation Landscaping Council has approved this course for 6.0 CBLP CEUs.

The International Society of Arboriculture (Mid-Atlantic) has approved this course for 6.0 CEUs for Certified Arborist, Municipal Specialist, BCMA-Management; 1.5 CEUs for TW Climber Specialist and TW Aerial Lift Specialist.

Updates to pending course approvals can be found at www.halfmoonseminars.org under this course listing.

Completion certificates will be awarded to participants who complete this event, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Registration

Restoring Natural Areas in Maryland

Live, Interactive Webinar - Friday, April 23, 2021

How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900		
Fax: 715-835-6066	Code:	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.
Complete the entire form. Attach duplicates if necessary.		

Tuition	
() I will be attending the live webinar. Single Registrant - \$289.00 . Three or more registrants from the same company registering at the same time - \$199.00 each.	
() I am not attending. Please send me the webinar recording: ☐ Streamable MP4 Video/PDF Manual for \$299.00 . ☐ USB Video/PDF Manual for \$299.00 .	
Checks: Make payable to HalfMoon Education Inc.	
Credit Card: <i>Mastercard, Visa, American Express, or Discover</i>	
Credit Card Number: _____	
Expiration Date: _____ CVV2 Code: _____	
Cardholder Name: _____	
Billing Address: _____	
City: _____ State: _____ Zip: _____	
Signature: _____	
Email: _____	