

Agenda

Presented by Michael A. Liptak, Ph.D.

Introduction to Restoration

What is ecological restoration?
Types of restoration- active vs. passive
ADIM - assess, design, implement, monitor/manage
Setting restoration goals
Assessment

Design - Site Evaluation and Project Planning

SMART goal setting
Project objectives
Monitoring criteria
Reference communities
Designing in a changing world
Designing with nature, not against it
Considerations for urban environments
Humans and the natural environment

Implementation

Construction considerations
Environmental permitting and regulatory processes

Monitoring and Adaptive Management

Monitoring techniques
Success criteria
Long-term site management
Invasive species control
The role of fire in ecosystem management

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Restoration of Natural Habitats: Including Prairies, Wetlands and Forests

Fairfax, VA - Thursday, April 30, 2020

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Learning Objectives

You'll be able to:

Define ecological restoration and distinguish between active restoration and passive restoration of project sites.

Describe the habitat restoration process, including site evaluation, setting project objectives, and designing with nature – not against it.

Incorporate natural habitat elements into urban environments and into construction projects.

Review environmental permitting and regulatory processes.

Discuss methods of monitoring and managing natural restoration efforts to assure long-term success.



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Explore active and passive ecological restoration

Evaluate sites and set restoration objectives

Consider restoration for urban environments

Examine environmental permitting and regulatory processes

Identify the role of fire in ecosystem management

Review techniques for monitoring progress and managing sites for the long term

Continuing Education Credits

Professional Engineers

6.5 Continuing Ed. Hours

Certified Arborists

6.5 ISA CEUs (more CEUs inside)

Architects

6.5 Continuing Ed. Hours (HSW)

6.5 AIA LU|HSW

Contractors

Non-Credit Continuing Ed.

Landscape Architects

6.5 Continuing Ed. Hours (HSW)

6.5 LA CES HSW PDHs

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Dr. Liptak is a member of the ecological survey team where he specializes in rare plant surveys, wetlands ecology, wetland restoration, and mitigation wetland design. He earned his Ph.D. degree at The Ohio State University under the noted wetland ecologist Dr. William Mitsch, and completed his graduate research on the created wetlands at the Olentangy River Wetland Research Park in Columbus. Dr. Liptak has over 15 years of experience in wetlands research and consulting and is a Certified Senior Ecologist (Ecological Society of America). His main responsibilities at EnviroScience include rare plant surveys, wetland restoration planning, wetland assessments and delineations, technical report preparation and review. Dr. Liptak has experience in preparing mitigation plans for many different projects, including wetland creation, restoration, and upland restoration, as well as preparing upland restoration and prairie planting plans. He has extensive experience with terrestrial, aquatic, and wetland surveys for projects of all sizes. Dr. Liptak is a pre-qualified consultant certified to complete aquatic and wetland surveys, wetland delineations, waterways permitting, and wetland mitigation design for Ohio Department of Transportation (ODOT) projects. He is a member of the Society of Wetlands Scientists and the Ecological Society of America. Dr. Liptak regularly gives seminars on ecological issues and regulations within the state of Ohio.

“Best seminar I’ve taken!” – *Engineer* “Very engaging seminar.” – *Landscape Architect*
“Fun, informative, accessible, practical.” – *Sales Representative*

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This seminar is open to the public and offers 6.5 continuing education hours to engineers, architects, and landscape architects (HSW) in most states, including Virginia. Educators and courses are not subject to preapproval in Virginia.

This event has been approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885) and by the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Visit www.halfmoonseminars.org for complete AIA information under this course listing. Only full attendance is reportable to the AIA/CES and LA/CES.

The International Society of Arboriculture has approved this course for the following CEUs: 6.5 Certified Arborist, Municipal Specialist; 5.5 BCMA Management; 3.0 Aerial Lift, Climber Specialist, Utility Specialist; 1.0 BCMA Practice, 0 BCMA Science

This course offers a non-credit continuing education opportunity to contraction contractors. It has not been preapproved in any state with contractor continuing education requirements.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire program. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

• Distributed Batteries for Solar PV Systems, Part II
Fri., April 3, 2020, 11:00 AM - 2:15 PM CDT

Wed., April 8, 2020, 11:00 AM - 1:00 PM CDT

Wed., April 8, 2020, 1:30 - 3:30 PM CDT

Thurs., April 9, 2020, 11:00 AM - 12:30 PM CDT

Wed., April 15, 2020, 11:00 AM - 1:00 PM CDT

Wed., April 15, 2020, 1:30 - 3:00 PM CDT

Thurs., April 16, 2020, 11:00 AM - 12:00 PM CDT

Thurs., April 16, 2020, 11:00 AM - 12:30 PM CDT

Thurs., April 16, 2020, 1:00 - 3:00 PM CDT

Fri., April 17, 2020, 11:00 AM - 12:30 PM CDT

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