

Agenda

Focus on Sustainability: Light Pollution Reduction *M. Coolidge*

Defining light pollution
Safety, health and environmental impacts of light pollution
Outdoor lighting ordinances

Key Concepts in Ecology for Site Design *D. Apostol*

Conservation biology
Landscape ecology
Restoration ecology

Applying Ecological Concepts to Landscape Architecture and Site Design *D. Apostol*

Community
Flood plains
Critical areas
Endangered species
Enforcement mechanisms

Population Biology, Habitats and Successional Planning *D. Apostol*

Community ecology
Hydrology
Connectivity
Disturbance
Resiliency
Restoring native ecosystems
Design of conservation reserves

Designing Stormwater Facilities for Function and Performance *K. Forester
Mary Larkin*

Stormwater regulation
The evolution of stormwater design
Performance and maintenance issues and solutions
Case studies

Current Issues in Sustainable Site Design
Portland, OR - Tuesday, November 27, 2018

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Learning Objectives

You'll be able to:

Understand the importance of light pollution reduction, and review outdoor lighting ordinances.

Discuss conservation biology, landscape ecology, and restoration ecology.

Apply ecological concepts to landscape architecture and site design.

Explore community ecology, connectivity, and resiliency.

Design stormwater facilities for function and performance.



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Learn the health and environmental impacts of light pollution

Examine key concepts in ecology for site design

Understand population biology, habitats and successional planning for site design

Discuss stormwater regulation, and the science driving water policy practices

Explore emerging trends in stormwater management

Continuing Education Credits

Professional Engineers
7.0 PDHs

Architects
7.0 HSW Contact Hours/CPE Hours
7.0 AIA HSW Learning Units

Landscape Architects
7.0 HSW PDHs
7.0 LA/CES HSW PDHs

Contractors
7.0 Commercial CE Hours



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Mary Coolidge *Audobon Birdsafes Campaign Coordinator, Portland, OR*
Ms. Coolidge is Portland Audubon’s BirdSafe campaign coordinator, working with architects, planners and designers to reduce hazards for birds in the urban environment while meeting other building design and performance objectives, including site lighting design, sustainability, livability and climate change objectives. One of the driving questions in this work is around how we can light our built areas in such a way as to protect ecosystem and human health and minimize waste by reducing light pollution, while also designing nighttime environments that address safety and appeal to and accommodate people. She advocated for the use of smart technology to dim or extinguish lighting based on outdoor occupancy, motion sensors and lighting programmability. Ms. Coolidge is dedicated to improving efforts to make urban environments more hospitable to wildlife and helping to connect people to nature and place at home in the city. She has a degree in biology and formerly served as Audubon’s assistant conservation Director. She splits her time between Portland Audubon and the Oregon Zoo’s California Condor breeding program.

Dean Apostol *Environmental Consultant, Portland, OR*
Mr. Apostol is a semi-retired environmental consu ltant, restoration ecologist, teacher, writer, and small farmer. He graduated from Iowa State University in Landscape Architecture in 1977. He credits Professor Robert Dyas, a noted lover of the Midwestern tallgrass prairie (and World War 2 vet), with sparking his interest in native ecosystems and how to use them in landscape design and planning. Mr. Apostol has had a 40 year up and down (recessions are a bummer) career based in the Pacific Northwest and California. He was a licensed landscape architect in Oregon from 1983-2014. Mr. Apostol’s career has included private and public practice. He ran his own office from 1981-1986, and again from 1997-2008, when he joined MIG’s Portland office as a Senior Landscape Architect. From 1986-1997 Mr. Apostol worked at the US Forest Service where, as head landscape architect, he collaborated with the lead ecologist on development of a process for applying landscape ecology to forest management. This resulted in a small book: *Forest Landscape Analysis and Design*, along with 15 minutes of fame, including consultation on applying its ideas around the US, Canada, and in Europe. Mr. Apostol also worked for the Federal Bureau of Reclamation in California and the Army Corps of Engineers in Seattle as a manager for large scale (really mess things up) water projects. A

Seminar Information

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Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs to professional engineers, 7.0 HSW continuing education hours to architects, and 7.0 HSW PDHs to landscape architects in most states, including Oregon. Educators and courses are not subject to preapproval in Oregon.

This seminar is approved by the American Institute of Architects for 7.0 HSW Learning Units (Sponsor No. J885) and the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Only full attendance can be reported to the AIA/CES and the LA/CES. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects and landscape architects.

This seminar offers 7.0 continuing education hours to Oregon commercial contractors. Courses and course providers are not subject to preapproval in Oregon.

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

long interest in the restoration of natural ecosystems led Mr. Apostol to write and edit *Restoring the Pacific Northwest*, published by Island Press in 2006. This book provides a broad geographic overview of regional ecosystems and the state of the art (at that time) for restoring them to health. He followed this with publication of *Designing Sustainable Forest Landscapes* (Taylor and Francis Press), a follow up to his work with the Forest Service. Another area of interest is conservation of scenic landscapes, and in 2016 Mr. Apostol led a team to research and write *The Renewable Energy Landscape* (Routledge Press). This book looks at the impacts on the visual landscape of large scale commercial energy projects, particularly wind and solar. In semi-retirement, Mr. Apostol continues to selectively consult, teach, and write. His next book is about the failed effort to design a new city in Damascus, Oregon, where Mr. Apostol has a small farm.

Kate Forester *Landscape Architect for Herrera, Portland, OR*
Ms. Forester is a landscape architect and ecologist with 14 years of experience in natural resource management, planning, and design. She has an M.L.A. degree in Landscape Architecture from the University of Minnesota and a B.S. degree in Environmental Studies from the University of Oregon. Ms. Forester specializes in urban ecology, botany, watershed science and policy, and LID stormwater management and design. Her extensive background in landscape maintenance and field research informs and grounds her creative process and work. She designs LID facilities for municipal and private clients, and trains maintenance staff to ensure maintenance practices are clearly understood. Ms. Forester also writes LID design and maintenance guidelines and LID manuals.

Mary Larkin *Engineer for Herrera, Portland, OR*
Ms. Larkin is a LEED-accredited engineer with over 20 years of experience in stormwater and restoration design, planning, and regulatory compliance in Oregon, Washington, Montana, and Iowa. Her design experience encompasses storm drainage, culvert and fish passage design, conveyance engineering, and site development projects for municipal clients, transportation agencies, and private and industrial clients. She has successfully worked with clients to identify and implement creative solutions that maximize watershed benefits and resource protection.

Additional Learning

Webinar Series

Geothermal Heating and Cooling
• **Thermodynamic Basics of Geothermal Systems**
Thurs., Nov. 1, 2018, 11:00 AM - 12:00 PM CDT
• **Understanding Earth Loop Systems**
Thurs., Nov. 1, 2018, 12:30 - 2:00 PM CDT
• **Choosing and Designing Geothermal Systems**
Fri., Nov. 2, 2018, 11:00 AM - 12:00 PM CDT
• **Evaluating and Maintaining Geothermal Systems**
Fri., Nov. 2, 2018, 12:30 - 2:30 PM CDT

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Registration

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