You’ll be able to:

- Identify the drawbacks of conventional approaches to stormwater management.
- Explain the principles and benefits of low impact development (LID) strategies.
- Explain the science of the water cycle and site hydrology, as a foundation to understanding the objectives of low impact development.
- Identify the objectives of low impact structural best management practices, such as bioretention systems, dry swales, infiltration basins, rain barrels, and green roofs.
- Describe the process of low impact development site planning.
- Discuss the economics, construction and maintenance considerations of low impact development projects.

Agenda

Low Impact Development Resources

Low Impact Development Structural BMPs

Low Impact Development Economics, Construction, and Maintenance Considerations

Low Impact Development Site Planning

- Understanding and Implementing Principles of Low Impact Development (LID)
- Urban environment and water quality
- Conventional development and stormwater management
- Drawbacks of conventional approaches
- Origins of LID
- Principles and benefits of LID
- Low-Impact Development Hydrology Considerations
- Water cycle and site hydrology
- Defining regional hydrologic considerations
- Evaluating hydrologic outcomes
- Hydrologic tools for LID
- Low Impact Development Site Planning
- Incorporating LID into common land development projects
- LID site planning tools
- Environmental site design (ESD)
- Low Impact Development Structural BMPs
- Choosing and designing best BMPs
- Site investigation
- Bioretention systems
- Dry swales
- Permeable pavements (porous asphalt, porous concrete, interlocking paver systems)
- Infiltration basins, trenches, underground systems
- Rain barrels
- Green roofs
- Low Impact Development Economics, Construction, and Maintenance Considerations
- Construction specifications
- Maintenance requirements
- Evaluation of LID costs and payback periods
- Low Impact Development Resources
- Incorporation of LID into land use regulations
- LID model ordinances (state and local)
- Low Impact Development Economics, Construction, and Maintenance Considerations
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- Maintenance requirements
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Faculty

Steven Trinkaus, PE  Principal at Trinkaus Engineering, LLC in Southington, CT

Mr. Trinkaus is an internationally-recognized expert in the field of low impact development, having presented at many ASCE/EWRI international conferences and many other regional conferences and workshops on LID and water quality issues. He has been an invited presenter and consultant in Taiwan, China, and South Korea. He has also presented on sustainable stormwater at the University of St. Andrews in Scotland. Mr. Trinkaus has written LID design manuals for the Towns of Tolland, Plainville, Harwinton, East Granby, and Morris, Connecticut. He has designed many types of LID treatment systems for a variety of residential and commercial applications. Mr. Trinkaus is chair of the EWRI LID Guideline Document Task Committee and is the primary author of the Committee’s national guidance document on adopting LID standards. Mr. Trinkaus is a licensed professional engineer in Connecticut and Maryland. He received a bachelor of science degree in Forest Management in 1980 from the University of New Hampshire. He has more than 30 years of experience in the land development field, more than 19 years of experience designing low impact development treatment systems, and six years of experience writing LID regulations and design manuals.

Seminar Information

Courtyard Little Rock North
4339 Warden Road
North Little Rock, AR 72116
(501) 753-2000

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:30 pm
Lunch (on your own)
12:30 - 1:30 pm
Afternoon Session
1:30 - 4:30 pm

Tuition
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This seminar is approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. J885) and the Landscape Architecture Continuing Education Systems for 6.5 LU|HSW. Only full attendance is reportable to the AIA/CES and the LA/CES. Attendees are responsible for completing their own AIA/CES information under this course listing.

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

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Pumping and Piping Systems
- Introduction to Pumps
- Operation, Principles and Calculations
- Pumping and Piping Design Standards and Codes
- Piping System Components, Materials and Calculations
- Handling Pump and Piping System Problems

Pavement Design
- Principles of Pavement Design
- Flexible Pavement Design
- Rigid Pavement Design
- Maintenance, Rehabilitation and Sustainability of Pavements

Ethical Issues for Engineers
- Resolving Disputes and Handling Ethical Issues in Government Projects
- Complying with Rules of Professional Conduct

Foundations in Cold Regions
- Introduction to Foundations in Cold Regions
- Shallow Foundation Design in Cold Regions
- Deep Foundation Design in Cold Regions
- Foundation Construction in Cold Regions

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Registration

Low Impact Development
North Little Rock, AR - Friday, February 28, 2020

How to Register

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