

Agenda

Understanding Principles of Low Impact Development

Understanding the status quo: conventional development and stormwater management

Drawbacks of conventional approaches

Principles of LID

- Stormwater
- Circulation and site design
- Infrastructure access
- Natural resource conservation

Benefits of LID for builders and municipalities

- Environmental benefits
- Municipal
- Public
- Developers

Launching LID Locally

Discussion amongst participants on their experience with agencies having jurisdiction (AHJ) during review and permitting of projects

Identifying local partners, synergies and incentives

Exploring LID resources

Sustainable Onsite Stormwater Management

Participants to share current projects with potential for LID applications

Group discussion on current projects they are working on

Reducing disturbance and impervious surfaces

Maximizing filtration and infiltration

Minimizing conveyance off site

Onsite Stormwater Best Management Practices

Choosing and designing best management practices (BMPs)

Participant discussion of their use of the following methods and the success or failure and what may have contributed to either success or failure

- Bioretention
- Vegetated buffers
- Rain barrels
- Infiltration trenches
- Dry wells
- Level spreaders
- Rain gardens
- Pervious concrete/permeable pavers
- Filter strips
- Vegetated swales
- Cisterns

Beyond Stormwater:

Additional Site Design and Development Considerations

Avoiding greenfields

Repurposing existing sites

Density and circulation

Walkability and bikeability

Recap of the Day's Discussion with the Following Question:

What are You Going to do Differently Now?

What new sources of information will you seek out?

How will LID strategies enter into the beginning stages of your design process?

What will you be looking for on the construction site?

Participants are asked to bring examples of projects they have or are working on to be used in discussing LID concepts and their implementation. PowerPoint slides that can be projected are encouraged.

Low Impact Sustainable Development

Grand Rapids, MI - Friday, February 7, 2020

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PO Box 278
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Learning Objectives

You'll be able to:

Explain the principles of low impact development (LID), including stormwater management, natural resource conservation and infrastructure access.

Describe LID benefits for project owners, the public, municipalities, developers and the environment.

Select best management practices, including bioretention, filter strips, vegetated buffers, rain gardens, rain barrels, infiltration trenches, dry wells and cisterns.

Adopt practices to achieve LID goals, including replacing traditional concrete with impervious concrete and permeable pavers, repurposing existing sites, avoiding greenfields, reducing disturbance during construction and improving walkability and bikeability.



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Low Impact Sustainable Development

Grand Rapids, MI - Friday, February 7, 2020



Understand principles of low impact development

Explore LID resources

Discuss sustainable onsite stormwater management

Think beyond stormwater to improve sustainability

Choose and design best management practices (BMPs), including filter strips, bioretention and previous concrete

Consider example projects from your practice that would benefit from LID practices

Continuing Education Credits

Professional Engineers

7.0 Continuing Ed. Hours

Floodplain Managers

7.0 ASFPD CECS

Architects & Landscape Architects

7.0 HSW Continuing Ed. Hours

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Contractors

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Faculty

Stephan C. Howick *Fanning Howey*
Low impact development (LID) strategies are important tools in addressing challenging site conditions for land development projects. Having utilized these strategies over many years, Mr. Howick has found that LID strategies can be cost efficient, environmentally effective, and aesthetically pleasing. During the past 14 years Mr. Howick has provided planning, permitting and site design services in the creation of smarter spaces for learning in his role as senior landscape architect for Fanning Howey Associates, Inc. in Celina, Ohio. As a LEED-accredited professional he has provided site design leadership on nearly 50 LEED Certified projects, 20 of which are certified Gold. In addition to his current work, Mr. Howick has worked in the mitigation of transportation infrastructure impacts, and in the planning and design of urban open space.

Phil Tevis *Flatland Resources LLC*
Having grown a land use planning and design consulting firm over the past 30 years, Mr. Tevis has become an expert in water resource management and the enhancement of river health across the Midwest. Based in Muncie, Indiana, his firm Flatland Resources, LLC, is the primary consultant for the longest watershed project in Indiana. His firm provides services in stream restoration, including multiple dam removal projects. His firm has developed of over 100 miles of trails and the management planning for over 700 acres of preserved woodlands, created prairies and other natural areas. His firm has integrated alternative practices to combined sewer separation projects in defiance of convention, yielding cost savings and social benefit to the rate payers. Mr. Tevis has served as adjunct faculty in the Ball State Universities Landscape Architecture Department.

Seminar Information

Courtyard by Marriott Downtown
11 Monroe Ave. NW
Grand Rapids, MI 49503
(616) 242-6000

Tuition
\$289 for individual registration
\$269 for three or more registrations.
Included with your registration: Complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

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 seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Continuing Education Credit Information
This seminar is open to the public and offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects and landscape architects in most states, including Michigan architects and engineers. Educators and courses are not subject to pre-approval in Michigan.
This course has been approved by the American Institute of Architects Continuing Education System for 7.0 LU|HSW (Provider No. J885) and by the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Only full attendance is reportable to LA/CES and AIA/CES. Visit www.halfmoonseminars.org for complete AIA/CES information under this course listing.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects and landscape architects.
The Association of State Floodplain Managers has approved this course for 7.0 CECs.

Additional Learning

Webinar Series
Off-Grid Master Class

- **Part I**
Wed., Jan. 22, 2020, 11:00 AM - 2:15 PM CST
- **Part II**
Thurs., Jan. 23, 2020, 11:00 AM - 2:15 PM CST

- Aerial Mapping Technologies and Procedures**
- **Overview of Aerial Mapping Technologies and Platforms**
Thurs., Jan. 23, 2020, 11:00 AM - 12:30 PM CST
 - **Mapping Using UAS and Photogrammetry**
Thurs., Jan. 23, 2020, 1:00 - 3:00 PM CST
 - **Post Processing Software Applications and Photogrammetry Demonstration**
Fri., Jan. 24, 2020, 11:00 AM - 1:00 PM CST
 - **FAA Commercial UAS Regulations and FAA Part 107**
Fri., Jan. 24, 2020, 1:30 - 3:00 PM CST

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

This seminar offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any contractor licensing entity with a continuing education requirement.
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.

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!
Audio recordings of this seminar are available for purchase starting at \$269. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Low Impact Sustainable Development
Grand Rapids, MI - Friday, February 7, 2020

How to Register		Registrant Information	
Online: www.halfmoonseminars.org		Name: _____	
Phone: 715-835-5900		Company/Firm: _____	
Fax: 715-835-6066		Address: _____	
Code:		City: _____ State: _____ Zip: _____	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Occupation: _____	
Complete the entire form. Attach duplicates if necessary.		Email: _____	
		Phone: _____	
		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.	

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

() **I am not attending.** Please send me the self-study package:

☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.

☐ CD/Manual Package for **\$289.00**. ☐ USB/Manual Package **\$289.00**.
(S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: Mastercard, Visa, American Express, or Discover

Credit Card Number: _____

Expiration Date: _____ CVV2 Code: _____

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