

Agenda

Principles of Pavement Design

M. Shafiee

- Goals of pavement design
 - Smooth, stable surface and longevity
- Terminology and basic components
 - Pavement section
 - Asphalt and concrete components
 - Loading
- Consulting guidelines and standards
- Collecting data necessary for design
- Economics and lifecycle analysis

Flexible Pavement Design

M. Shafiee

- Soil support and subsurface preparation
- Reclamation and recycling
- Mixture content and pavement thickness
- Preparing and overlaying existing pavement

Flexible Pavement Maintenance and Rehabilitation

M. Shafiee

- Goals
- Distresses
- Preservation techniques
- Rehabilitation practices

Rigid Pavement Design

M.T. Speakmon

- Soil support and subsurface preparation
- Mixture content and pavement thickness
- Preparing and overlaying existing pavements
- Joint design

Rigid Pavement Maintenance and Rehabilitation

M.T. Speakmon

- Goals
- Distresses
- Preservation techniques
- Rehabilitation practices

Sustainability of Pavements

M.T. Speakmon

- Carbon footprint analysis
 - Treatment
 - Fuel
- Environment and LEED credits
 - Recycled materials
 - Runoff filtration zones
- Raw materials
 - Traffic delays
- Pervious pavements

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Pavement Design, Construction and Maintenance

Live, Interactive Webinar - Thursday, April 25, 2024

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



Learning Objectives

You'll be able to:

Discuss the goals of pavement design and explore consulting guidelines and standards.

Learn about flexible and rigid pavement design, from subsurface preparation to mixture content to existing pavement overlay.

Examine flexible and rigid pavement distresses and discuss preservation techniques and rehabilitation practices.

Explore the sustainability of pavements, considering carbon footprint analysis.

Get tips on using recycled materials and pervious pavements.



HalfMoon Education Live Webinars

Pavement Design, Construction and Maintenance

Live, Interactive Webinar - Thursday, April 25, 2024



Understand the goals of pavement design, review terminology and explore consulting guidelines and standards

Discuss the process for designing new flexible and rigid pavement overlays

Examine soil support and subsurface preparation, mixture content pavement thickness, and joint design

Identify maintenance goals, and consider distresses that may require rehabilitation

Explore the sustainability of pavements, considering carbon footprint analysis

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CE Hours
6.5 AIA LU | HSW

Landscape Architects
6.5 HSW CE Hours
6.5 LA CES HSW PDHs

International Code Council
.65 CEUs (Sitework)



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Webinar Information

Log into Webinar 8:00 - 8:30 am CDT	Break 12:00 - 12:30 pm CDT
Morning Session 8:30 am - 12:00 pm CDT	Afternoon Session 12:30 - 4:00 pm CDT

Tuition
\$319 for individual registration.
\$289 for two or more registrants from the same company at the same time.
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Faculty

Mohammad Shafiee, Ph.D., P.Eng. *Associate Researcher at the National Research Council Canada's Construction Research Centre*
Dr. Shafiee has several years of R&D experience in transportation geotechnics, pavement mechanics and highway construction materials. Since 2012, he has contributed to more than 27 journal publications and conference proceedings and led and collaborated with different teams on major high-impact projects in climate-resilient pavements and sustainable materials. Some of his recent activities have resulted in development of unique and novel tools such performance-graded asphalt cement under Changing Climate (PGAC3) and Pavement Adaptation Support Tool (PAST). His work has also related to use of innovative and sustainable solution towards circular economy and low-carbon pathways across pavement sector by using waste by-products and recycled materials in hot-mix asphalt manufacturing.

Tyler Speakmon, Ph.D.
Senior Paving Engineer and Senior Infrastructure Engineer at CEMEX
Dr. Speakmon has over 10 years of experience with concrete paving, engineering, design, and research. Dr. Speakmon has a master's degree in Civil-Structural Engineering and a doctorate degree in Civil-Materials Engineering from Texas A&M University. He has worked with mix design, structural design, life cycle analyses and many other aspects of concrete paving. Dr. Speakmon serves on the Pavement Design Committee for the American Concrete Pavement Association (ACPA).

Additional Learning

- Current Issues in New Urbanism**
- Thursday, March 14, 2024 | 9:00 am - 4:00 pm CDT
- Stormwater Best Management Practices**
- Friday, March 15, 2024 | 9:00 am - 4:15 pm CDT
- Using RSMeans Data to Create Cost Estimates**
- Friday, March 15, 2024 | 9:00 am - 4:30 pm CDT
- Sustainable Site Design**
- Wednesday, March 20, 2024 | 8:30 am - 4:00 pm CDT
- Public Water Systems**
- Thursday, March 21, 2024 | 9:00 am - 4:30 pm CDT
- The Arborist Short Course:
Advanced Tree Knowledge for Better Tree Care**
- Friday, March 22, 2024 | 9:00 am - 4:30 pm CDT

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers, 6.5 HSW continuing education hours for licensed architects, and 6.5 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and 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)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits
The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
6.5 HSW LUs (AIA) 6.5 HSW PDHs (LA CES)

- Foundation and Retaining Wall Damage and Repair: Science, Materials, and Techniques**
- Friday, March 22, 2024 | 9:00 am - 4:30 pm CDT
- Electrical Basics for Building Professionals: Understanding and Calculating Electrical Loads**
- Tuesday, March 26, 2024 | 9:00 am - 12:15 pm CDT
- Electrical Basics for Building Professionals: Residential Electrical Circuit Design**
- Tuesday, March 26, 2024 | 1:00 - 4:15 pm CDT
- Complying with the Uniform Plumbing Code 2021**
- Tuesday, March 26, 2024 | 9:00 am - 4:30 pm CDT
- Residential and Small Commercial Roof Design and Construction**
- Thursday, March 28, 2024 | 9:00 am - 4:30 pm CDT

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