

Agenda

Presented by Dr. Armen Amirkhanian

Agenda Day One

Principles of Pavement Design

- Pavement purposes and applications
- 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

Asphalt Pavement Design

- Asphalt pavement uses and applications
- Soil support and subsurface preparation
- Pavement materials
- Pavement thickness
- Pavement construction
- Applications for asphalt overlay
- Overlay design and construction

Agenda Day Two

Asphalt Pavement Maintenance, Repair and Rehabilitation

- Pavement distresses and repair techniques
- Evaluating pavement condition and choosing rehabilitation techniques

Concrete Pavement Design

- Concrete pavement uses and applications
- Soil support and subsurface preparation
- Pavement materials
- Pavement thickness
- Pavement construction and joint design
- Applications for concrete overlay
- Overlay design and construction

Concrete Pavement Maintenance, Repair and Rehabilitation

- Pavement distresses and repair techniques
- Evaluating pavement condition and choosing rehabilitation techniques

Sustainability of Pavements

- Carbon footprint analysis
 - Treatment
 - Fuel
 - Traffic delays
- Environment and environmental product declarations
 - Recycled materials
 - Raw materials
 - Runoff filtration zones

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Pavement Design, Construction and Maintenance

Online - Wednesday, July 27 and Thursday, July 28, 2022

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Learning Objectives

You'll be able to:

Discuss pavement terminology and basic components.

Identify appropriate pavement design standards and guidelines.

Explore asphalt pavement design, including soil support, subsurface preparation and pavement materials.

Identify applications for concrete pavements, and discuss pavement installation and joint design.

Discuss pavement distresses and repair techniques.

Consider the sustainability of pavements, including the carbon footprint of pavements and their environmental impacts.



HalfMoon Education Live Webinars

Pavement Design, Construction and Maintenance

Live, Interactive Webinar

Wednesday, July 27 and Thursday, July 28, 2022



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

Examine soil support and subsurface preparation

Explore applications for asphalt overlay

Identify asphalt pavement maintenance, repair and rehabilitation

Learn about concrete pavement uses and applications

Discuss pavement distresses and repair techniques

Review environmental concerns and environmental product declarations

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 HSW CE Hours

6.5 AIA LU | HSWs

Landscape Architects

6.5 HSW CE Hours

6.5 LA CES HSW PDHs

International Code Council

.65 CEUs (Sitework)



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Faculty



Dr. Armen Amirkhonian is an assistant professor at The University of Alabama. His research interests are broadly based in infrastructure materials characterization with a primary focus on cementitious materials. Past research has been on emerging concrete pavement topics such as two-lift paving and internal curing. Current research topics are exploring the areas of alkali-silica degradation characterization, atomic-scale characterization of alkali-activated materials, durability issues associated with concrete pavement rehabilitation, and asphalt binder characterization using machine-learning techniques. Dr. Amirkhonian has been principal investigator or co-PI on projects with the Oregon, Alabama, South Carolina, and Maryland Departments of Transportation. He is a professional engineer registered in Oregon, Alabama, and South Carolina. Dr. Amirkhonian is a voting member on American Concrete Institute committees 124 and 213 and an associate member of ACI committees 236, 242 and 325. He is also a voting member of the Transportation Research Board (TRB) standing committee AKP20. Dr. Amirkhonian is currently the secretary and treasurer of the International Society of Concrete Pavements. He is also the faculty advisor for the ASCE Concrete Canoe Team and the student ACI chapter at the University of Alabama.

Webinar Information

Day One: Wednesday, July 27, 2022
10:00 am - 1:10 pm CDT (including a 10-min. break)

Day Two: Thursday, July 28, 2022
10:00 am - 1:40 pm CDT (including a 10-min. break)
(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$319 for individual registration
\$289 for two or more registrants from the same company at the same time.
Included with your registration: PDF seminar manual.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
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Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

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Additional Learning

Creating a HEC-RAS Model
- Tues, June 28, 2022 | 8:30 am - 4:00 pm CDT

Pedestrian and Bicycle Transportation Planning and Design
- Wed, June 29, 2022 | 9:00 am - 3:50 pm CDT

AIA Contract Document Workshop
- Wed, July 6, 2022 | 8:30 am - 4:30 pm CDT

Restoring Natural Areas in Urban Areas
- Wed, July 6, 2022 | 9:00 am - 4:50 pm CDT

How to Design Foundations for Expansive Soils
- Fri, July 8, 2022 | 1:00 - 4:15 pm CDT

Efficient Residential Space Heating
- Wed, July 13, 2022 | 8:00 am - 3:30 pm CDT

Handling Ethical Issues in Government Projects
- Thurs, July 14, 2022 | 10:00 - 11:00 am CDT

Stormwater Best Management Practices
- Fri, July 15, 2022 | 8:30 am - 5:00 pm CDT

Writing Successful Proposals and RFPs
- Tues, July 19, 2022 | 8:30 am - 5:00 pm CDT

Shallow Foundation Design
- Wed, July 20, 2022 | 11:00 am - 2:15 pm CDT
- Thurs, July 21, 2022 | 11:00 am - 2:15 pm CDT

International Residential Code 2021
- Thurs, July 21, 2022 | 9:00 am - 5:00 pm CDT

Advanced HEC-RAS Modeling
- Fri, July 22, 2022 | 8:30 am - 4:20 pm CDT

Designing for Accessibility under ADA Standards and IBC
- Wed, July 27, 2022 | 8:30 am - 12:15 pm CDT
- Thurs, July 28, 2022 | 8:30 am - 12:15 pm CDT

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Continuing Education Credit Information

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

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The American Institute of Architects Continuing Education System has approved this course for 6.5 LU | HSWs (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).

Added Value:

Enhance your learning - a recording of this webinar will be available for attendees to stream online for two weeks after the program date.
(Must attend live webinar to earn live webinar credits)

Registration

Pavement Design, Construction and Maintenance
Live, Interactive Webinar - Wednesday, July 27 and Thursday, July 28, 2022

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