

Agenda

Presented by Joe Kindler Sr., P.E. and Dale Hill

Principles of Pavement Design

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

Soil support and subsurface preparation

Reclamation and recycling

Mixture content and pavement thickness

Preparing and overlaying existing pavement

Rigid Pavement Design

Soil support and subsurface preparation

Mixture content and pavement thickness

Preparing and overlaying existing pavements

Joint design

Maintenance and Rehabilitation

Goals

Preservation techniques

Distresses

Rehabilitation practices

Sustainability of Pavements

Carbon footprint analysis

- Treatment
- Fuel
- Raw materials
- Traffic delays

Environment and LEED credits

- Recycled materials
- Runoff filtration zones
- Pervious pavements

Pavement Design

Charleston, WV - Tuesday, March 20, 2018

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PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Understand pavement technology, and examine pavement design guidelines.

Explore economics and lifecycle analysis.

Review soil support and subsurface preparation.

Examine design of flexible and rigid pavements.

Review maintenance, rehabilitation and sustainability of pavements.



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Understand the principles of pavement design

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Continuing Education Credits

Professional Engineers

6.5 PDHs

Contractors

Non-Credit Continuing Ed.

Architects

6.5 HSW Continuing Ed. Hours

6.5 AIA HSW Learning Units



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Faculty

Joe Kindler Sr., P.E.
Mr. Kindler graduated with a BS degree in Civil Engineering from Case Institute of Technology, after which he spent six years with ODOT as maintenance engineer in district six. He went on to spend eight years with the City of Columbus as a street maintenance engineer, and 14 years as a partner in a preventative maintenance construction company, introducing Ralumac (micro surfacing) to Ohio and surrounding states. Since then he has been a consultant providing pavement management and pavement preservation techniques to clients in Ohio and Florida and various states in between. He has participated in two national PAVER workshops and numerous state and local workshops pertaining to pavement management and pavement preservation. Presently, Mr. Kindler is teaching a course in pavement design at The Ohio State University.

Dale Hill
Executive Director of the Builders Supply Association of West Virginia
The Builders Supply Association is dedicated to the education and promotion of the use of concrete materials in West Virginia. Mr. Hill is an alumnus of WVUIT and has served in many capacities over the past 20 years in the West Virginia construction industry. In 2002 he was published in “Road and Bridges” due to his design efforts of “fast track concrete pavement in West Virginia”. In 2009 Mr. Hill convinced the Builders Supply Association to lead the educational and promotional efforts of “Full Depth Reclamation” in West Virginia. After working with the WVDOH to create a procedure specification, this product has “recreated” many miles of road within the State, especially in the areas of the Marcellus Shale projects. This innovative procedure to revitalize worn existing asphalt pavements is a proven procedure to save money, natural resources and reduce landfill quantities.

Seminar Information

Four Points by Sheraton Charleston
600 Kanawha Blvd. East
Charleston, WV 25301
(304) 344-4092

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:15 pm
Lunch (on your own)
12:15 - 1:15 pm
Afternoon Session
1:15 - 4:30 pm

Tuition
\$279 for individual registration
\$259 for three or more registrations.
Each registration includes a 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 CD/manual package. You may also send another person to take your place.

Continuing Education Credit Information
This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states, excluding Florida architects. Educators and courses are not subject to preapproval in West Virginia.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. J885). Full attendance is required to report LUs to the AIA/CES.

Halfmoon education is deemed an approved continuing education sponsor for New York architects. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota.

This course offers a non-credit continuing education opportunity to construction contractors.

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 CD/Manual Package:
An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Additional Learning

- March Webinar Series**
- Solar Photovoltaic Project Design and Development**
- **Solar Photovoltaic Project Design and Development, Part I**
Wed., Mar. 7, 2018, 11:00 AM - 2:15 PM CST
 - **Solar Photovoltaic Project Design and Development, Part II**
Thurs., Mar. 8, 2018, 11:00 AM - 2:15 PM CST
- Handling Ethical Issues in Professional Engineering Practice**
Fri., Mar. 9, 2018, 11:00 AM - 12:00 PM CST
- Deep Excavations**
- **Introduction to Deep Excavations**
Thurs., Mar. 15, 2018, 11:00 AM - 1:00 PM CDT
 - **Soil Mechanics, Cantilever Walls and Anchored Sheet Pile Walls**
Thurs., Mar. 15, 2018, 1:30 - 3:00 PM CDT
 - **Braced Excavation Design**
Fri., Mar. 16, 2018, 11:00 AM - 12:30 PM CDT
 - **ASD and LRFD Design**
Fri., Mar. 16, 2018, 1:00 - 2:30 PM CDT
- HEC-RAS**
- **Hydraulic Principles and Applications**
Thurs., Mar. 22, 2018, 11:00 AM - 1:00 PM CDT
 - **Working with the HEC-RAS User Interface**
Thurs., Mar. 22, 2018, 1:30 - 3:00 PM CDT
 - **Water Surface Profiling**
Fri., Mar. 23, 2018, 11:00 AM - 1:00 PM CDT
 - **Steady Flow Surface Profile Demonstrations**
Fri., Mar. 23, 2018, 1:30 - 3:30 PM CDT
- Commercial Energy Conservation Code**
- **Commercial Energy Conservation Code and COMcheck Introduction**
Weds., Mar. 28, 2018, 11:00 AM - 1:00 PM CDT
 - **Building Envelope Energy Efficiency**
Weds., Mar. 28, 2018, 1:30 - 3:30 PM CDT
 - **Heating, Ventilation and Air Conditioning Systems**
Thurs., Mar. 29, 2018, 11:00 AM - 1:00 PM CDT
 - **Service Water Heating, Power and Lighting**
Thurs., Mar. 29, 2018, 1:30 - 3:00 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

Registration

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How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____
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Fax: 715-835-6066		
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Complete the entire form. Attach duplicates if necessary.		
		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 - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

() **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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