

Agenda

Presented by Joe Kindler, Sr., P.E.

Design

History of pavements, design goals, improving sustainability
Factors that influence design and necessary data

SHARPS (Strategic Highway Research Program)

Before SHARPS

- Pavement problems (rutting, cracking), material testing

Superpave

- Performance testing, design, using PAVEXPRESS

RAP (recycled asphalt pavement)

- HMA (hot mix asphalt) production vs increased RAP challenges
- Increased RAP vs HMA design challenges
- Semi-circular bending (SCB) fracture energy test

Pavement Management

Inventory

- Branches, sections, wards, ranks organized your way

Inspection

- PCR (pavement condition rating), PCI (pavement condition index), automated
- ASTM D6433

Document production

- Actual budget related to average condition, justification for decisions, documentation for additional funding

Preventive Maintenance

Rejuvenators, seals, chip, slurry, micro, cape

- Thin-lays and micro-mill

Pavement Maintenance

Mill and fill, rehabilitate, new materials or repairs that work

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

A full recording of this seminar is starting at \$269, which includes shipping and handling. This learning method does not qualify for the continuing education credit in Ohio or for the AIA/CES and LA/CES. Please allow five weeks from the seminar date for delivery.

Asphalt Pavement

Columbus, OH - Tuesday, February 11, 2020



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

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Learning Objectives

You'll be able to:

Identify pavement design goals and improve sustainability.

Discuss the results of the Strategic Highway Research Program, and learn how the program has improved performance, durability and safety.

Explore Superpave and recycled asphalt pavement.

Learn about pavement management, including inspections and budgeting.

Apply new techniques in preventive maintenance.

Discuss new materials and repairs that work.



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Learn about the history of pavements, set design goals, and improve sustainability

Learn from the results of the Strategic Highway Research Program (SHARPS)

Explore the use of recycled asphalt pavement

Consider methods of pavement inspection

Review an actual pavement management budget

Learn about preventative maintenance as well as repair techniques

Continuing Education Credits

Professional Engineers

6.5 CPD Hours



HalfMoon Education Inc.
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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.

Additional Learning

Webinar Series

Demolition and Deconstruction

- **Purposes and Benefits of Demolition and Deconstruction**
Wed., Jan. 15, 2020, 11:00 AM - 1:00 PM CST
- **Markets/Uses for Deconstructed Materials**
Wed., Jan. 15, 2020, 1:30 - 3:00 PM CST
- **Material-Specific Deconstruction Methods**
Thurs., Jan. 16, 2020, 11:00 AM - 12:30 PM CST
- **Planning and Conducting a Deconstruction**
Thurs., Jan. 16, 2020, 1:00 - 3:00 PM CST

Ethical Issues for Engineers

- **Handling Ethical Issues in Professional Engineering Practice**
Fri., Jan. 17, 2020, 12:00 - 2:00 PM CST
- **Resolving Disputes and Handling Ethical Issues in Government Projects**
Fri., Jan. 31, 2020, 12:00 - 1:00 PM CST
- **Complying with Rules of Professional Conduct**
Fri., Feb. 14, 2020, 12:00 - 1:00 PM CST

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

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

Introduction to the World of BIM and the Revit Basics

- **BIM and Revit Overview**
Wed., Jan. 29, 2020, 11:00 AM - 12:30 PM CST
- **Revit Model Building and Elements**
Wed., Jan. 29, 2020, 1:00 - 3:00 PM CST
- **Creating Sheets in Revit**
Thurs., Jan. 30, 2020, 11:00 AM - 12:30 PM CST
- **Revit Drafting and 3D Model Management**
Thurs., Jan. 30, 2020, 1:00 - 3:00 PM CST

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 CPD (PDHs) to professional engineers in all states. Educators and courses are not subject to preapproval in Ohio.

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 and architects.

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!

A full recording of this seminar is starting at \$269, which includes shipping and handling. This learning method does not qualify for the continuing education credit in Ohio or for the AIA/CES and LA/CES. Please allow five weeks from the seminar date for delivery.

Registration

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

Cardholder Name: _____

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Email: _____

Seminar Information

Crowne Plaza Columbus North - Worthington	Registration	Lunch (On your own)
6500 Doubletree Avenue Columbus, OH 43229 (614) 885-1885	8:00 - 8:30 am Morning Session	12:00 - 1:00 pm Afternoon Session
	8:30 am - 12:00 pm	1:00 - 4:30 pm

Tuition

\$289 for individual registration

\$269 for three or more simultaneous 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.