

Agenda

Presented by Shenghua Wu, Ph.D., P.E., LEED AP

Principles of Pavement Design

- Applications for hot-mix asphalt pavements
- Goals and considerations
- Characteristics: smooth, dense, uniform surface
- Terminology and technology
- Codes and standards

Asphalt Mix Design Considerations

- Aggregates
- Recycled materials
- Design methods
- Asphalt binders

Making Asphalt Pavements More Sustainable

Asphalt Installation

- Installation process
- Options
- Joints and transitions
- Quality assurance and quality control

Maintenance and Rehabilitation

- Establishing a maintenance program
- Causes of distress and damage
- Types of distress and damage
- Repair and rehabilitation techniques

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Hot-Mix Asphalt Pavement Design, Maintenance and Rehabilitation

Live, Interactive Webinar - Friday, August 2, 2024

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PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Understand the applications for hot-mix asphalt pavements.

Review aggregates, recycled materials, design methods and asphalt binders.

Understand how to make asphalt pavements more sustainable.

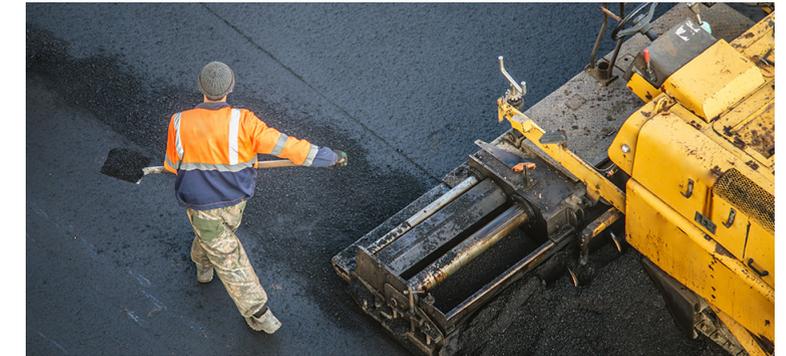
Discuss the asphalt installation process.

Understand how to establish a maintenance program.



HalfMoon Education Inc., Your LIVE Education Leader Presents Hot-Mix Asphalt Pavement Design, Maintenance and Rehabilitation

Live, Interactive Webinar - Friday, August 2, 2024



Learn about the principles of pavement design

Understand asphalt mix design considerations

Discuss how to make asphalt pavements more sustainable

Explore asphalt installation

Analyze maintenance and rehabilitation

Continuing Education Credits

Professional Engineers
6.0 PDHs

Architects
6.0 HSW CE Hours
6.0 AIA LU | HSW

Landscape Architects
6.0 HSW CE Hours
6.0 LA CES HSW PDHs

International Code Council
.6 CEUs (Sitework)



Webinar Information

Online - Friday, August 2, 2024

Log into Webinar

8:00 - 8:30 am CDT

Break

12:30 - 1:30 pm CDT

Morning Session

8:30 am - 12:30 pm CDT

Afternoon Session

1:30 - 4:00 pm CDT

Tuition

\$339 for individual registration.

\$309 for two or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

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Faculty

Shenghua Wu, Ph.D., P.E., LEED AP *University of Southern Alabama*

Dr. Shenghua Wu is an assistant professor in the Department of Civil, Coastal, and Environmental Engineering at the University of Southern Alabama. He is the director for the Solid Waste Sustainability Hub and the director for Sustainable Asphalt Materials Lab. He was a senior sustainability research engineer in the Illinois Center for Transportation at the University of Illinois at Urbana-Champaign. His research areas include asphalt materials characterization, smart, sustainable transportation materials for infrastructure, pavement performance evaluation and modeling, design, and maintenance. He has published more than 50 peer-reviewed journal articles and 10 technical reports. He teaches a mixture of undergraduate and graduate engineering courses such as Pavement Design and Advanced Characterization of Transportation Materials. He developed a free course for students to pass the FE exam. Dr. Wu is a committee member for Transportation Research Board (TRB) AJE35 and AKM 90, a member of American Society of Civil Engineer (ASCE), the American Society for Testing and Materials (ASTM), and the Academy of Pavement Science and Engineering (APSE). Dr. Wu is also an editorial member for *Journal of Testing and Evaluation* and *International Journal of Pavement Research and Technology*. He serves panel member for several National Cooperative Highway Research Program (NCHRP) and Air Port Cooperative Research Program (ACRP) projects. He is also a registered professional engineer in Alabama and LEED AP.

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers, 6.0 HSW continuing education hours for licensed architects, and 6.0 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. 24GP00049300) 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 6.0 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 6.0 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved this event for .6 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: 6.0 HSW LUs (AIA), 6.0 HSW PDHs (LA CES)

Additional Learning

Roadway Maintenance, Rehabilitation and Repair

- Thursday, June 27, 2024 | 9:00 am - 4:00 pm CDT

Green Building Materials and Certifications

- Friday, June 28, 2024 | 8:30 am - 3:50 pm CDT

AIA Contract Document Workshop

- Monday, July 1, 2024 | 8:30 am - 4:30 pm CDT

Sustainable Site Design

- Monday, July 1, 2024 | 8:30 am - 4:30 pm CDT

Deep Dive into Retaining Wall Layout for Site Designers

- Tuesday, July 2, 2024 | 9:00 - 11:00 am CDT

Pond Design and Construction

- Tuesday, July 2, 2024 | 9:00 am - 4:00 pm CDT

How to Naturalize an Existing Stormwater Detention/Retention Basin

- Wednesday, July 10, 2024 | 2:00 - 4:00 pm CDT

Asphalt Pavement: Production, Placement and Preservation

- Friday, July 12, 2024 | 1:00 - 5:15 pm CDT

Restoring Natural Spaces

- Friday, July 12, 2024 | 8:30 am - 4:30 pm CDT

Introduction to Groundwater Modeling

- Tuesday, July 16, 2024 | 9:00 am - 4:00 pm CDT

It Doesn't End in August - Extending Interest in the Garden

- Tuesday, July 16, 2024 | 8:30 - 11:15 am CDT

Roadmap to Ethical Issues in Construction: A Primer for Design Professionals

- Tuesday, July 16, 2024 | 11:00 am - 1:00 pm CDT

Brownfield Planning and Redevelopment

- Wednesday, July 17, 2024 | 10:00 am - 12:00 pm CDT

Threats to Trees and How to Increase Their Survival

- Wednesday, July 17, 2024 | 11:00 am - 3:00 pm CDT

- Thursday, July 18, 2024 | 11:00 am - 2:30 pm CDT

Introduction to Stormwater Modeling

- Thursday, July 18, 2024 | 9:00 am - 4:00 pm CDT

Landscaping for Pollinators

- Thursday, July 18, 2024 | 10:00 am - 12:00 pm CDT

Deep Dive into PFAS in Our Water

- Wednesday, July 24, 2024 | 9:00 am - 12:15 pm CDT

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