

HalfMoon Education Live Continuing Education Webinars

Hot-Mix Asphalt Pavement Design, Maintenance and Rehabilitation

Online - Thursday, September 1, 2022 | 9:00 am - 1:15 pm CDT

Credits:

Professional Engineers: 4.0 PDHs

Architects: 4.0 HSW CE Hours AIA: 4.0 LU/HSW

Landscape Architects: 4.0 HSW CE Hours LA CES: 4.0 HSW PDHs

International Code Council: .4 CEUs (Sitework)

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Webinar Agenda | Thursday, September 1, 2022 | 9:00 am - 1:15 pm CDT (including a 15-min. break)

Asphalt Mix Design Considerations

S. Shirzad

Aggregates
Recycled materials
Design methods
Asphalt binders

Principles of Pavement Design

T. Dawson

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

Maintenance and Rehabilitation

T. Dawson

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

Presented by Sharareh Shirzad

Assistant Professor at Appalachian State University

Dr. Sharareh Shirzad is an assistant professor at the Department of Sustainable Technology and the Built Environment at Appalachian State University. Before that, she worked as a graduate research assistant at Louisiana State University and Louisiana Transportation Research Center. She obtained her Ph.D. from the Department of Construction Management at LSU working on light-activated self-healing asphalt materials. She also holds a graduate certificate in Materials Science and Engineering. Dr. Shirzad's research expertise and interest are in the broad theme of sustainable infrastructure and sustainable construction materials. She has published the results from her research on self-healing asphalt materials, recycling of asphalt materials, and sustainable asphalt pavements in multiple peer-reviewed journals such as the *Journal of Materials in Civil Engineering* and the *Journal of Construction and Building Materials*. She is currently working on the use of bio-oil and biochar obtained from pyrolysis of the wood and forestry waste in asphalt and concrete pavement, respectively.

Tyler Dawson, Ph.D., P.E.

Project Engineer with NTH Consultants, Ltd. in Lansing, Michigan

Dr. Dawson is in his sixth year as a pavement, geotechnical, and subsurface utility engineer with NTH Consultants, Ltd. (NTH). He has a wide background in pavement research, management, and design. He has completed research projects for the Michigan Department of Transportation (MDOT) and the Federal Highway Administration (FHWA) involving pavement design, material characterization, maintenance, and management. He has participated in and led several projects which have included pavement surface and structural evaluations, geotechnical explorations, subsurface utility engineering (SUE), and transportation utility coordination. Dr. Dawson's geotechnical design experience includes earth retention, embankment, road sign and signal, ITS structure, bridge, and other deep and shallow foundations using LRFD and other techniques. He has also led several geophysical investigations to locate buried structures/utilities and subsurface voids. Dr. Dawson earned his B.S. degree, M.S. degree and Ph.D. degree from Michigan State University.

Credit Information

This webinar is open to the public and is designed to qualify for 4.0 PDHs for professional engineers, 4.0 HSW continuing education hours for licensed architects, and 4.0 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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The American Institute of Architects Continuing Education System has approved this course for 4.0 LUIHSWs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 4.0 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved this event for .4 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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