

Agenda

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

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
- Mixture content and pavement thickness
- Reclamation and recycling

Rigid Pavement Design

- Soil support and subsurface preparation
- Mixture content and pavement thickness
- Joint design

Maintenance and Rehabilitation

- Goals
- Investigation
- Distresses
- Pavement management

Other Pavement Topics

- Pavement drainage
- HMA mix design
- Parking lots / low volume roads

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Pavement Design

Live, Interactive Webinar - Friday, March 19, 2021



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Learning Objectives

You'll be able to:

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

Analyze soil support and subsurface preparation, mixture content, and more regarding flexible pavement design.

Examine the joint design, soil support and subsurface preparation, mixture content, and more regarding rigid pavement design.

Identify maintenance goals, and consider distresses that may require rehabilitation.

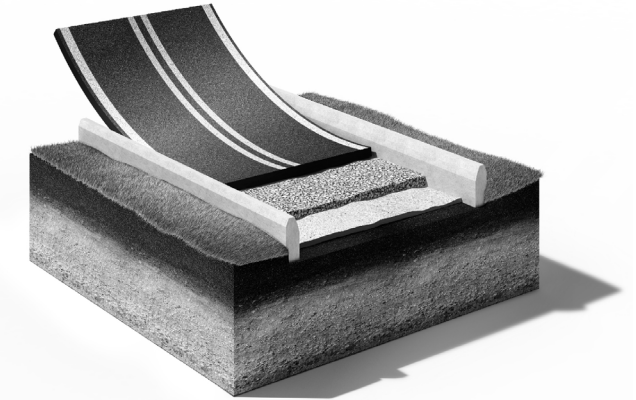
Learn about other pavement topics including pavement drainage, HMA mix design, and pavements for parking lots/low volume roads.



HalfMoon Education Online Learning

Pavement Design

Live, Interactive Webinar - Friday, March 19, 2021



Take an in-depth look at both flexible pavement design and rigid pavement design

Analyze the principles of pavement design

Explore economics and lifecycle analysis

Discuss pavement maintenance and rehabilitation

Learn about other pavement topics including pavement drainage, HMA mix design, and parking lots/low volume roads

Continuing Education Credits

Professional Engineers

6.5 PDHs in all States



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Faculty

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

Principal Engineer with NTH Consultants, Ltd. in East Lansing, Michigan

Dr. Dawson is in his 10th 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 numerous projects which have included pavement surface and structural evaluations, geotechnical explorations, pavement design, and both short- and long-term pavement management plans. He has also provided expert services for pavement evaluations and litigation involving pavements. Dr. Dawson has also served as a part time instructor for Michigan State University Department of Civil & Environmental Engineering, where he has taught senior and graduate level courses in pavement design and asset management. Dr. Dawson earned his B.S. degree, M.S. degree and Ph.D. degree from Michigan State University.

Webinar Information

Log into Webinar 8:30 - 9:00 am CDT	Break 12:45 - 1:15 pm CDT
Morning Session 9:00 am - 12:45 pm CDT	Afternoon Session 1:15 - 4:30 pm CDT

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Additional Learning

Handling Ethical Issues

in Construction Contracting

- Tues., Feb. 16, 2021 | 9:00 - 10:00 am CST

Introduction to GNSS Surveying

- Thurs., Feb. 18, 2021 | 10:30 am - 2:30 pm CST

- Fri., Feb. 19, 2021 | 10:30 am - 2:30 pm CST

Construction Cost Estimating

- Fri., Feb. 19, 2021 | 7:30 am - 3:30 pm CST

International Existing Building Code

- Mon., Feb. 22, 2021 | 8:30 am - 5:00 pm CST

Stormwater Basins and Underground Systems

- Tues., Feb. 23, 2021 | 9:00 am - 4:30 pm CST

Current Issues in

Schoolyard Landscape Architecture

- Tues., Feb. 23, 2021 | 11:00 am - 2:30 pm CST

- Wed., Feb. 24, 2021 | 11:00 am - 2:30 pm CST

Construction Scheduling and Cost Control

- Thurs., Feb. 25, 2021 | 9:30 am - 2:00 pm CST

- Fri., Feb. 26, 2021 | 9:30 am - 2:00 pm CST

Current Issues in the Practice of Geoscience

- Fri., Feb. 26, 2021 | 8:30 am - 3:50 pm CST

International Building Code 2021

- Fri., Feb. 26, 2021 | 9:00 am - 5:00 pm CST

Deep Excavations

- Thurs., Mar. 4, 2021 | 8:30 am - 4:30 pm CST

Parking Structure Design, Construction and Maintenance

- Thurs., Mar. 11, 2021 | 8:30 am - 4:30 pm CST

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Registration

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