

Agenda

Presented by Dr. Tyler Dawson & Dr. Tyler Speakmon

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

Pavement distresses

Private Roadway Pavement Design

Soil support and subsurface preparation

Mixture content and pavement thickness

- Flexible Pavement
- Rigid Pavement

Commercial Site Pavement Design

Flexible Pavement

Rigid Pavement

- Joint design

Maintenance and Rehabilitation

Goals

Reclamation and recycling

Preparing and overlaying existing pavements

Preservation techniques

Rehabilitation practices

Sustainability of Pavements

Pervious pavements

Designing specific elements

Design of parking lots and driveways

Design of shared-use pavements

Design of sidewalks, paths and walkways

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Commercial Site Pavement Design, Installation and Maintenance

Live, Interactive Webinar - Wednesday, June 2, 2021

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Learning Objectives

You'll be able to:

Follow basic design principles for concrete and asphalt pavements.

Review applicable design guidelines and standards.

Consider soil support, mixture content and pavement thickness.

Discuss factors that cause pavement distress and review maintenance and rehabilitation practices.

Explore factors that improve the sustainability of pavements.

Get tips on designing specific elements, including driveways, parking lots and walkways.



HalfMoon Education Online Learning Commercial Site Pavement Design, Installation and Maintenance

Live, Interactive Webinar - Wednesday, June 2, 2021



Study principles of pavement design

Review consulting guidelines and standards

Consider pavement economics and lifecycle analysis

Discuss concrete pavement design and installation

Get tips on designing and installing asphalt pavement

Develop strategies for pavement maintenance and rehabilitation

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CE Hours

AIA
6.5 LU | HSW

Landscape Architects
6.5 HSW CE Hours

LA CES
6.5 HSW PDHs



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.

Tyler Speakmon, Ph.D. is a senior paving engineer at CEMEX. Mr. Speakmon is currently an engineer-in-training, and he has over 10 years of experience with concrete paving, engineering, design, and research. He has a master’s degree in Civil-Structural Engineering and a doctorate degree in Civil-Materials Engineering from Texas A&M University. Dr. Speakmon has worked with mix design, structural design, life cycle analyses and many other aspects of concrete paving. He serves on the Pavement Design Committee for the American Concrete Pavement Association (ACPA).

Webinar Information

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

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Additional Learning

Managing Construction Projects
- Fri, May 21, 2021 | 8:30 am - 4:30 pm CDT

2018 International Fuel Gas Code
- Fri, May 21, 2021 | 9:30 am - 4:30 pm CDT

Open Channel Hydraulics and Design
- Tues, May 25, 2021 | 8:30 am - 4:30 pm CDT

Retaining Wall Design and Slope Stabilization Techniques
- Tues, May 25, 2021 | 8:30 am - 4:30 pm CDT

Drones in Construction
- Tues, May 25, 2021 | 9:30 am - 5:00 pm CDT

Seismic Design and Construction
- Tues, May 25, 2021 | 11:00 am - 3:00 pm CDT
- Wed, May 26, 2021 | 11:00 am - 3:00 pm CDT

Stream Restoration for Design Professionals
- Wed, May 26, 2021 | 9:00 am - 4:30 pm CDT

Introduction to HEC-HMS Modeling
- Thurs, May 27, 2021 | 8:30 am - 3:50 pm CDT

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Commercial Site Pavement Design, Installation and Maintenance
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