

North Central Regional Update

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Research & Technology

Pavement Economics Committee

- 4 Task Groups

Other Research

- Asphalt Institute
- NCAT

Future Research

Market Research & Communications

Go-To-Market Task Group



Deployment Activities

Deployment Task Group



ASPHALT PAVEMENT ALLIANCE



Watchfor.us

A Moment Can Save a Life

Every year more than 600 people are killed in roadway work zones. Construction companies are dedicated to ensuring the safety of their workers and the driving public. Roadway work zones use a variety of warning systems, barriers, and other traffic controls to make certain drivers and work zones stay separated, but it just takes a moment of distraction for an accident to happen and for lives to be changed forever.

This is one such story.

A Moment Can Save a Life



Regional Initiatives

- **Life Cycle Cost Analysis**
 - GOAL: Adapting standard procedure for LCCA in NC Region that can incorporate state specific input. Gather best practices and deploy best strategies with region
- **Rehab Competition**
 - GOAL: Create competitive industry message promoting best HMA practices.
- **Proper Design Thickness**
 - GOAL: Promote initiatives designed to teach designers how to optimize pavement design while ensuring performance.
- **Commercial Market Strategy**
 - GOAL: Implement tools designed to enhance market share in private sector market.

WARNING!

Full Disclosure
and
Transparency



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**It's All about the
Message!**

What is OUR Message!!

Action LCCA

Presentations at SAPA Annual Meetings (general sessions) on LCCA

Deploy Educational PowerPoint on LCCA Recommended Practices

Prepare and conduct an APA update on the top three national initiatives: LCCA, PaveXpress, and Commercial Markets

Meetings with DOTs, appointees, and owners on LCCA in conjunction with industry partners

Understand the LCCA challenges and opportunities in the Northcentral regional states and develop plan with deliverables

Review of Initial Service Life Determination in LCCA Procedures and In Practice – TRB 2018

Summary of Middle 90% of Pavement Ages at Time of 1st Rehab

Pavement Type	No.	Avg	Min	Max	Std Dev
AC	206	17.68	7.09	28.93	5.51
PCC	121	23.84	12.88	35.44	5.79

Ride Quality (IRI) Prior to Rehabilitation

Pavement Type	Percent of Total Pavement Sections				
	Very Good** < 60	Good 61 – 95	Fair 96 – 120	Poor 121 – 170	Very Poor > 170
AC Pavements	9.6%	34.3%	24.1%	17.5%	14.5%
PCC Pavements*	1.1%	23.3%	26.7%	34.4%	14.4%

NCAT Source

#2 Rehab Competition

GOAL: Create competitive industry message promoting best HMA practices.

Specific to NC Region Initiative

ASPHALT



**IT'S WHAT'S
FOR DRIVING**

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Action #3 Pavement Design Initiative

STRATEGIC AREA 2 – PAVEXPRESS

Objective: Expand the use of the PaveXpress software by pavement designers.

Means to achieve:

Use PaveXpress to open discussions about structural number and proper design thicknesses in the APA Northcentral, Northeast, and Southeast regions.



PaveXpress Training

PAVEinstruct Pavement Design Education



Learning Pavement Design with PaveXpress

The Paveinstruct learning module is a web-based pavement design education system with video instruction by leading industry experts. Paveinstruct accompanies PaveXpress, a web-based software created to design flexible and rigid pavements using AASHTO 93/98. The education modules within Paveinstruct correlate with the design modules in PaveXpress and provide technically sound pavement design and instruction.

PAVEinstruct

Instruction

Please click below to enter the Paveinstruct learning module system. Presentations are available in short clips or in full format.

[Learning Center](#)

PAVEXpress

Design

Please click below to enter the PaveXpress design system.

[Learn More](#)

PaveXpress
PAVEMENT DESIGN
Simplified



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What does Optimized Design mean?

SN Value .52

SN Value .44

Surface (AC)	2.00"
Binder/Intermediate (AC)	2.00"
Base (AC)	1.50"
Aggregate Base	6.00"

Surface (AC)	2.00"
Binder/Intermediate (AC)	2.00"
Base (AC)	3.00"
Aggregate Base	6.00"

Subbase

Subbase

20% Savings

5.5" HMA

7" HMA

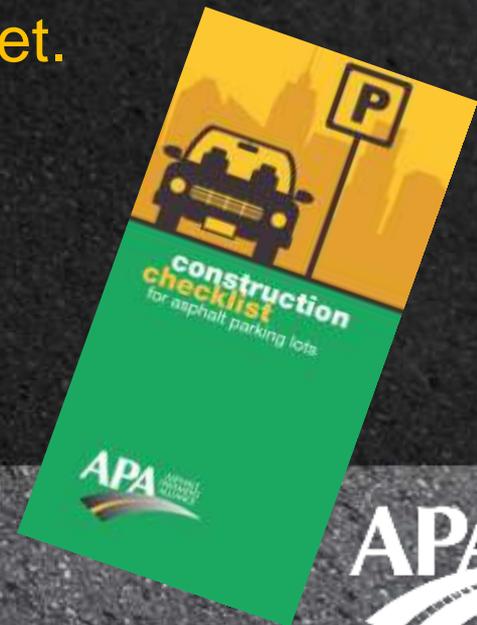


Action #4 Commercial

STRATEGIC AREA 3 – COMMERCIAL

Objective: To work with industry and SAPA members to develop national relationships that create opportunities to advocate for the effective use of asphalt.

- Work with state execs and contractors to implement PEC material geared to the commercial market.



Private Sector Markets & Local Roads



ASPHALT : THE SMOOTHEST WAY TO WELCOME CUSTOMERS

Whether at a business, a shopping center, a school, house of worship, recreation area or apartment building, a **PARKING LOT** is one of the first things a person sees when arriving at their destination. First impressions matter, and a poorly constructed or maintained lot can reflect negatively on an establishment. A well-maintained parking lot is also safer and easier for both pedestrians and drivers to negotiate. Asphalt pavements are the superior choice for parking lots because they are quick to construct, long-lasting, sustainable and easy and cost-effective to maintain. Plus, because asphalt is everywhere, there are qualified and capable asphalt paving companies in every community across the nation.



SPEED OF CONSTRUCTION

Construction and maintenance activities can be done quickly and at night, which eliminates inconvenience for customers and business operators.



PERFORMANCE

Long-life asphalt pavements are designed in layers so that they never need full-depth repair or reconstruction.



AESTHETICS

A business's exterior appearance influences the decision of where to shop for 95 percent of consumers.¹



¹ Horvath (2010). Consumers Are Influenced by the Physical Appearance of a Retailer. Horvath OrinKot Report, April 2010. Horvath Inc., Farmington Hills, Michigan.

ASPHALT WELCOMES

- An asphalt parking lot allows an owner to keep their "welcome mat" crisp and inviting.
 - Long term serviceability is easily and quickly maintained when utilizing asphalt pavements.
 - Asphalt pavements are extremely versatile and can be easily adapted to suit any pavement application.
 - Asphalt is the most recycled product in the world.
 - Asphalt parking lots are economical and can be used in light and heavy-duty applications.
- Contact us today for assistance.

ASPHALT: The Right Choice

- + Proper Design
 - + Construction Expertise
 - + Timely Maintenance
- = Cost Effective Long-term Durability



The APA is a partnership of the Asphalt Institute, National Asphalt Pavement Association, and the State Asphalt Pavement Associations. We were formed over 10 years ago.

APA's mission is to establish asphalt pavement as the preferred choice for quality, performance and the environment.

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NATIONAL ASPHALT
 PAVEMENT ASSOCIATION

Parking Lot Flyer

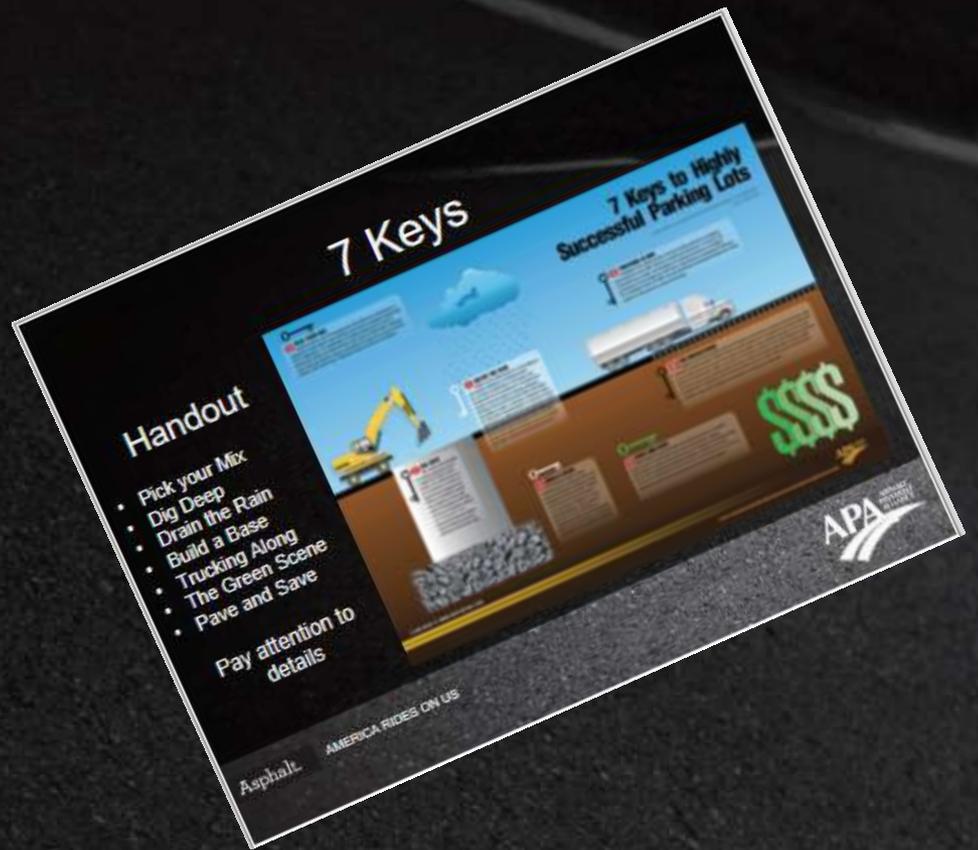


Parking Lot Training New and Reconstruction

Agenda

- 7 Keys to Success
- Critical Pavement Design
- Reconstruction
 - When
 - How
- Porous Asphalt
- LEED and Sustainable Practices

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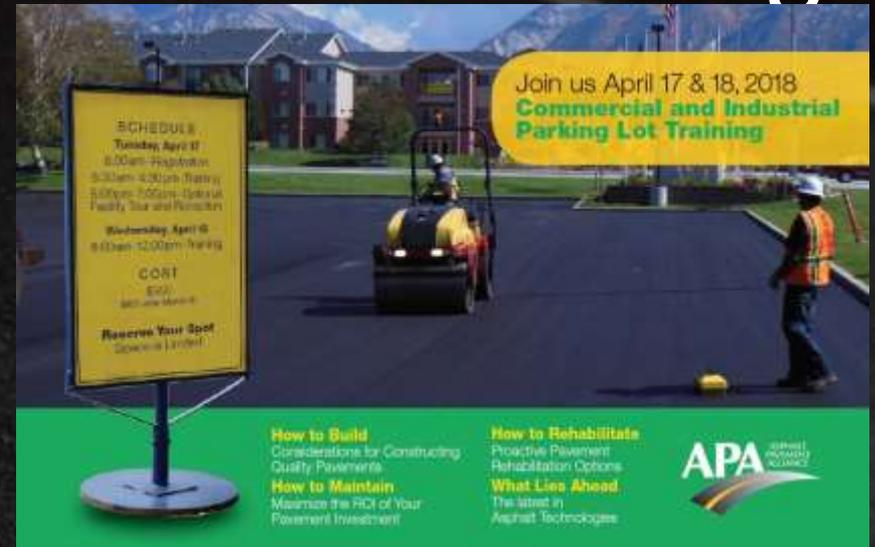


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Upcoming Commercial Training

- Professional Instructor's
 - Tim Murphy PE
 - Mike Groh- 
- April 17-18th Chicago
 - Future locations:
 - KC and MSP
- Focus: *“How To”*
 - Build
 - Maintain
 - Rehabilitate



In today's world, being efficient and effective with resources is the name of the game to keep your customers and tenants returning year after year. Join us for in-depth training and education related to the unique requirements of your commercial and industrial parking lot installations. From construction to maintenance, materials to proper pavement design, learn what is required to keep your facility in top-top shape.

Instructors

Tim Murphy, PE, President
Murphy Pavement Technology, Inc.
Tim provides best practices within the asphalt industry on local, regional, and national levels. He works collaboratively with agencies, associations, consultants, suppliers, and contractors to ensure quality asphalt construction at the most economical price.

Michael L. Groh, Principal
Pavement Consulting, LLC
Michael has been associated with the paving industry for four decades. His experience has been as a contractor, material supplier, and consultant with over twenty of the 40+ years working in the consulting industry.

Dan Stambell, Northcentral Regional Director
Asphalt Pavement Alliance
Dan has 35 years+ of asphalt paving knowledge working in all facets ranging from estimating, project management, construction, liquid traffic technologies, and marketing. Dan works with ARA, NARS, NARS, AI and the Regional State Asphalt Paving Association.

Additional 2018 Training Locations
Kansas City and Minneapolis
Location and dates TBD.

PAVEExpress Pavement design training using PaveExpress software

Join us April 17 & 18, 2018
Commercial and Industrial Parking Lot Training
NIU Naperville Conference Center
1120 East Dahl Road, Naperville, IL 60563

18 Hours of CE credits
100 Professional Engineers will be credited with training.

Space is limited. To reserve your spot today go to www.asphaltroads.org or contact the Asphalt Pavement Alliance office – Sandy Hager at shager@asphaltroads.org or 904.448.0758.

APA ASPHALT PAVEMENT ALLIANCE
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Orange Park, FL 32067

Create an Environment



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Thank You!

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APA

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