

North Central Regional Update

Dan Staebell
Regional Director
dstaebell@asphaltroads.org

Asphalt.

AMERICA RIDES ON US



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

To establish asphalt pavement as the preferred choice for quality, performance and the environment.



Mission

Asphalt.

AMERICA RIDES ON US





Mixture Quality & Performance

- Best Quality & Competitiveness
- Pavement Preservation
- Private Sector Markets & Local Roads



Life Cycle Cost Analysis

- Pavement Design
- Pavement Type Selection

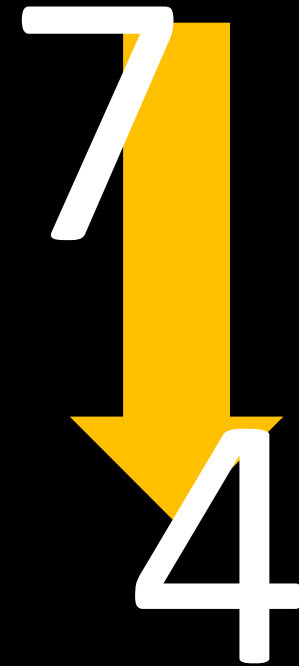


Life Cycle Assessment

- Environmental Sustainability



Legislative



New Task Group Structure

Brand Management

Align with New Task Groups

- Create Materials on LCCA, LCA, Mixture Quality & Performance, and Commercial Markets
 - ✓ Advertising Program
 - ✓ Videos & Infographics





85% OF DEATHS* IN WORK ZONES
ARE DRIVERS AND PASSENGERS IN CARS.

WORK ZONE SAFETY IS YOUR SAFETY, TOO.



*NHTSA
U.S. DOT/PAVEMENT/WORK ZONE SAFETY/FACTS_STATS/SAFETY/HTML



NATIONAL ASPHALT
PAVEMENT ASSOCIATION

Workzone Safety



NATIONAL ASPHALT
PAVEMENT ASSOCIATION

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



Watchfor.us

National Deployment Strategic Plan – Amy Miller

STRATEGIC AREA 1 – LCCA

- **Objective: Advocate the Proper and Appropriate Use of LCCA.**
 - Working with the SAPAs and industry members, advocate to DOT audiences, pavement specifiers and political appointees on how to properly formulate and use LCCA.

• STRATEGIC AREA 2 – PAVEXPRESS

- **Objective: Expand the use of the PavExpress software by pavement designers.**
 - Working with SAPAs, AI Regional Engineers, and other industry partners to expose pavement-design professionals, including public agencies and consulting engineers, to PavExpress. Simply exposing the design community to PavExpress has shown to increase usage of the tool.

• 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.**
 - Meetings with engineers and decision makers at the headquarters of national accounts to create relationships and determine what assets they need.
 - Work with state execs and contractors to implement PEC material geared to the commercial market.

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



Asphalt.

AMERICA RIDES ON US





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

§ 490.311 Metric Thresholds in Final Rule

Rating	Good	Fair	Poor
IRI (inches/mile)	<95	95-170	>170
PSR* (0.0-5.0 value)	≥4.0	2.0-4.0	≤2.0
Cracking Percent (%)	<5	<i>CRCP: 5-10</i> <i>Jointed: 5-15</i> <i>Asphalt: 5-20</i>	<i>>10</i> <i>>15</i> <i>>20</i>
Rutting (inches)	<0.20	0.20-0.40	>0.40
Faulting (inches)	<0.10	0.10-0.15	>0.15

*PSR may be used only on routes with posted speed limit < 40mph.



U.S. Department of Transportation
Federal Highway Administration

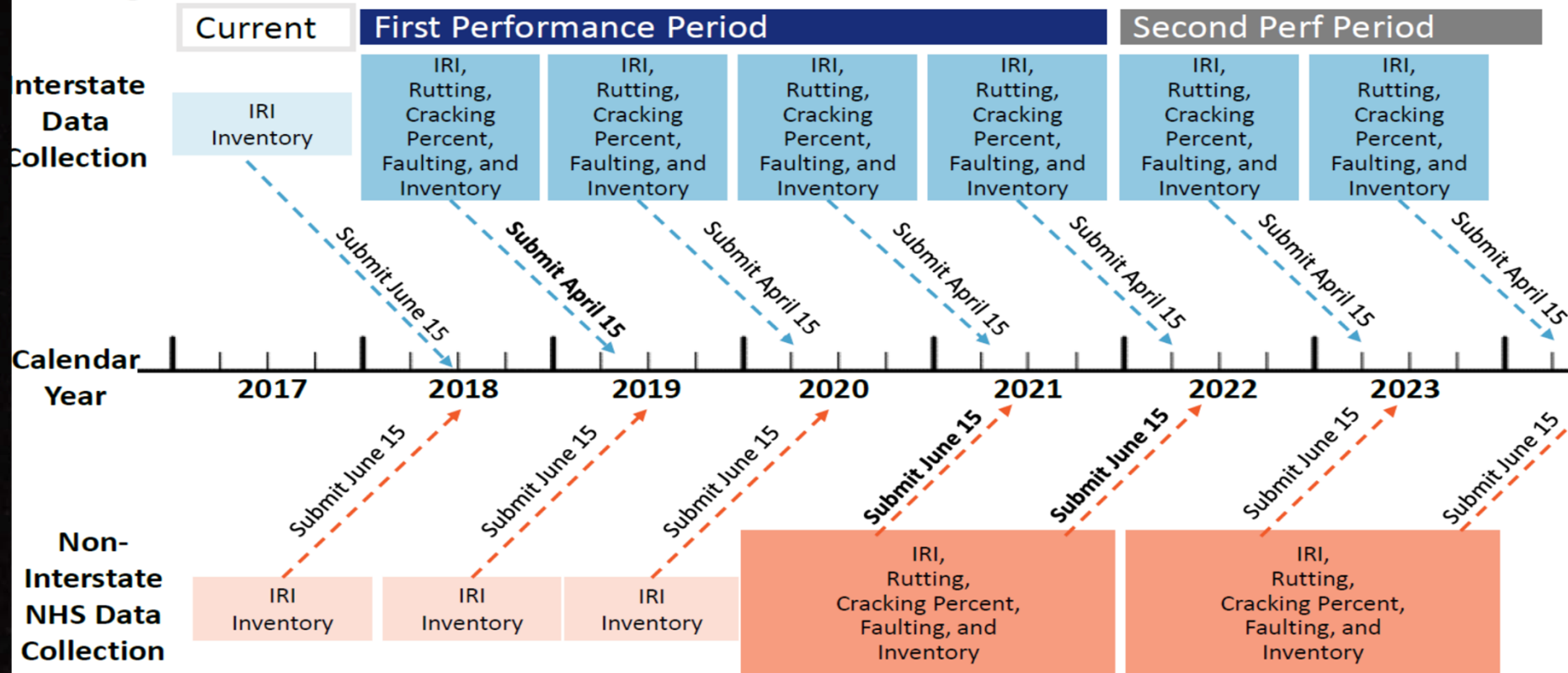
22

Asphalt.

AMERICA RIDES ON US



§ 490.309 State DOT Pavement Data Submittal

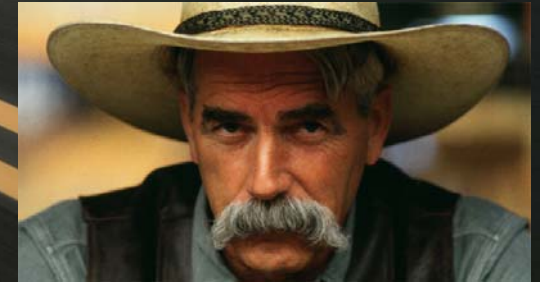


U.S. Department of Transportation
Federal Highway Administration

ASPHALT



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



Dan Staebell
Regional Director
APA

dstaebell@asphaltroads.org

[t @apa_djs](https://twitter.com/apa_djs)

Asphalt.

AMERICA RIDES ON US





Preserving Performance using Thinlay™

DAN STAEBELL
APA
NORTHCENTRAL REGIONAL DIRECTOR
DSTAEBELL@ASPHALTROADS.ORG

Thanks for Assistance:
Buzz Powell, NCAT
Brett Williams, NAPA

Asphalt.

AMERICA RIDES ON US



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.



Asphalt.

AMERICA RIDES ON US



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](#)

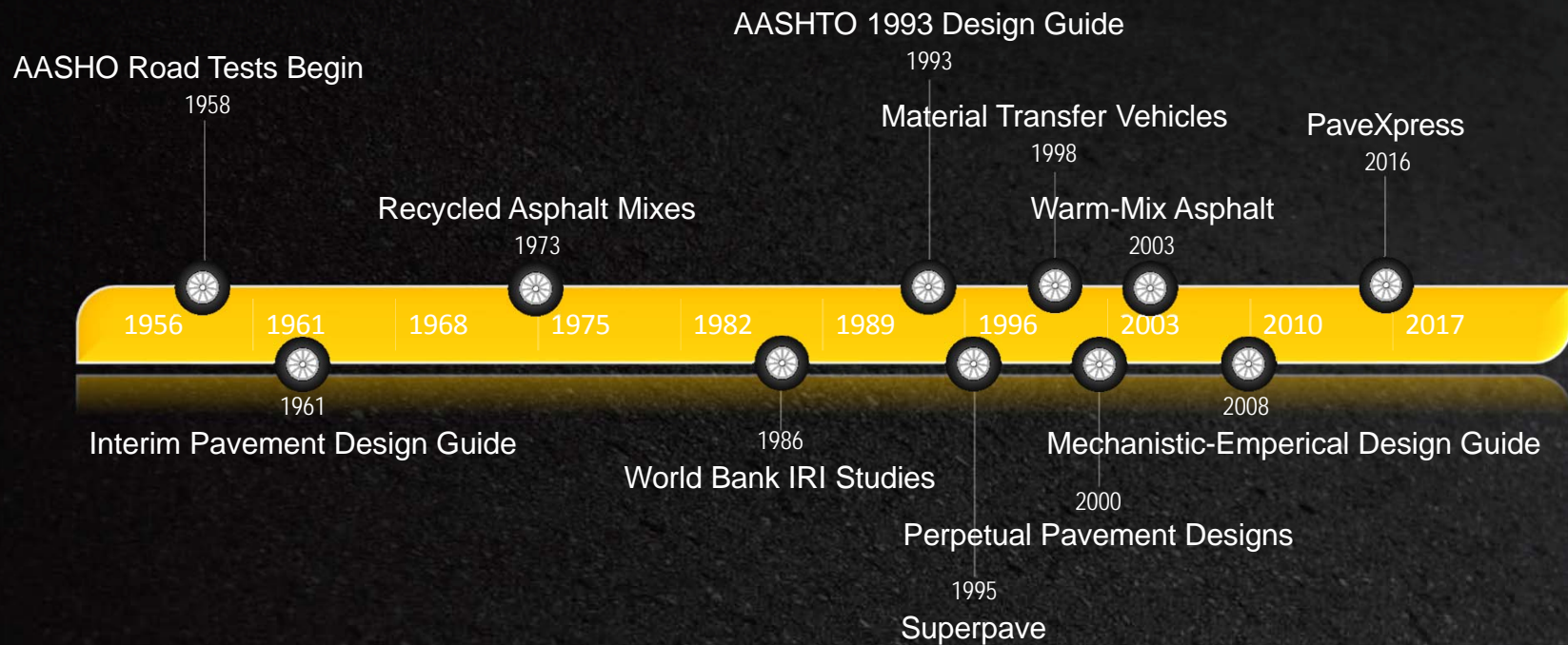
Asphalt.

AMERICA RIDES ON US

PaveXpress
PAVEMENT DESIGN
Simplified



The Path to Today



Asphalt.

AMERICA RIDES ON US

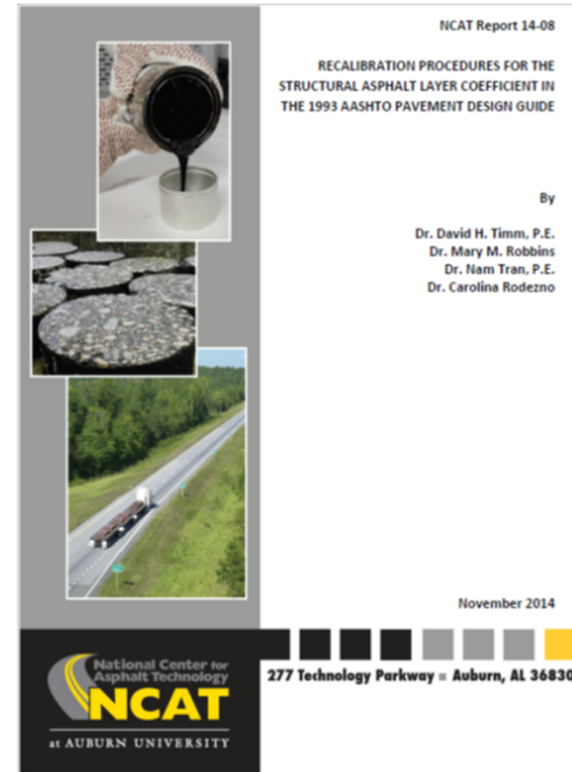


NCAT PEC Pavement Design Study

- SN Values today reflect .50-.54 vs .44
- Local review encouraged

1. The asphalt layer coefficient originally recommended by AASHTO in 1962 (1) is not necessarily applicable in all situations. Studies in Alabama (8) and Washington (11) found a higher value better reflected actual performance. The values in each state (Alabama = 0.54; Washington = 0.50) were remarkably similar despite geographical

6. Local agencies or municipalities that may not have all the information required for recalibration could still perform recalibration by utilizing existing information available through state or other local agencies for similar roadways in their geographic regions.



Asphalt.

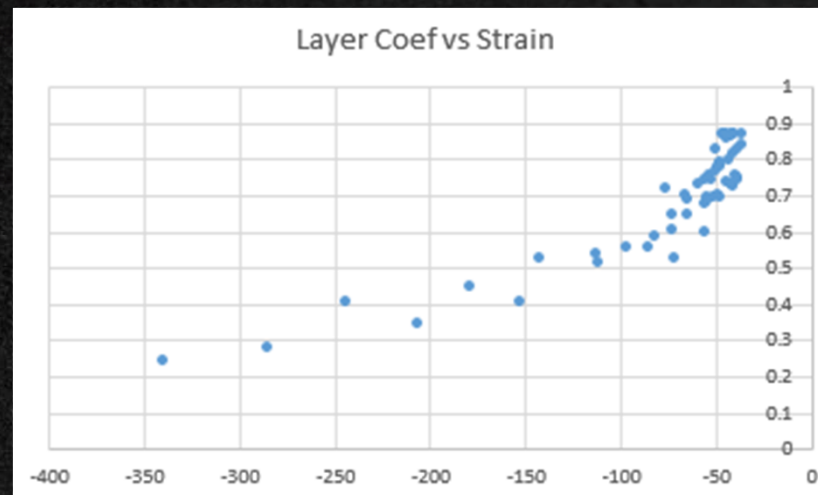
AMERICA RIDES ON US



Iowa SN work

HWY 100 SN Estimate

“When you have a perpetual pavement <100 microstrain, you can’t get there without at least a 0.5 layer coefficient. Specifically for HWY 100 I would estimate 0.58 SN”
S. Schram IA DOT



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"
Subbase	

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

20% Savings

Asphalt.

AMERICA RIDES ON US

PaveXpress

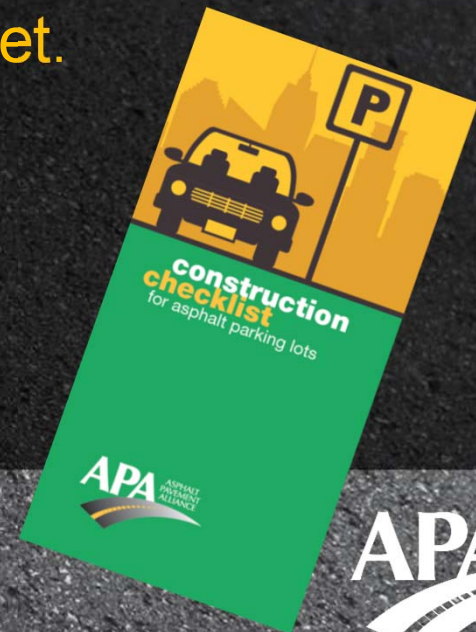


Action #4 Commercial

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.



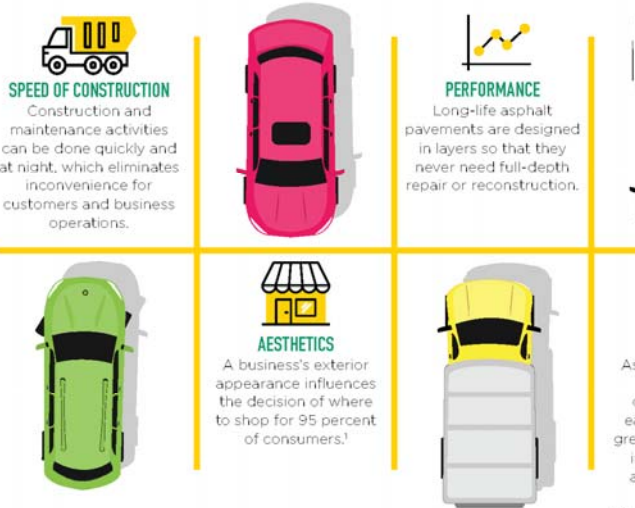
Asphalt.

AMERICA RIDES ON US



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.



1. Morpace (2011). Consumers Are Influenced by the Physical Appearance of a Retailer. Morpace Omnibus Report; April 2011. Morpace Inc., Farmington Hills, Michigan.



Private Sector Markets & Local Roads

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

$$\begin{aligned}
 &+ \text{Proper Design} \\
 &+ \text{Construction Expertise} \\
 &+ \text{Timely Maintenance}
 \end{aligned}
 =
 \begin{aligned}
 &\text{Cost Effective} \\
 &\text{Long-term} \\
 &\text{Durability}
 \end{aligned}$$



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.

Amy Miller, P.E., National Director
amiller@asphaltroads.org

Dan Staebell, Regional Director, Northcentral Region
dstaebell@asphaltroads.org

2233 Park Avenue, Ste. 200U
Orange Park, FL 32073

www.asphaltroads.org



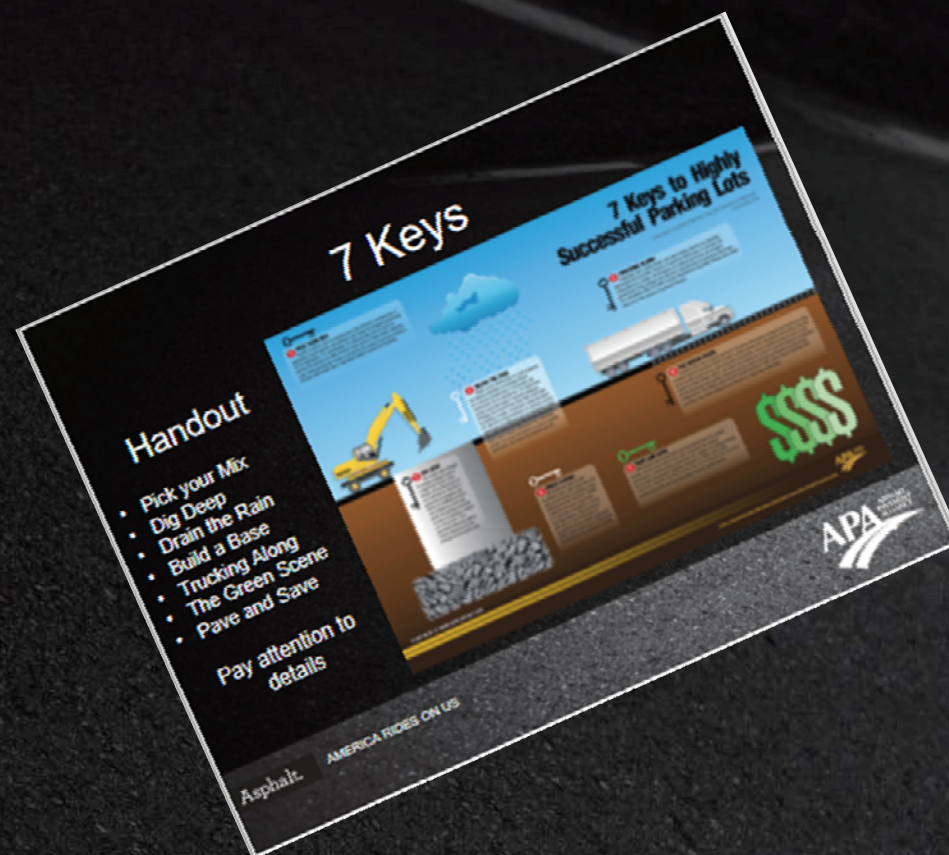
Parking Lot Flyer



Agenda

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

Asphalt. AMERICA RIDES ON US




Asphalt.

AMERICA RIDES ON US



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



Join us April 17 & 18, 2018
Commercial and Industrial Parking Lot Training

Save the Date

How to Build
Considerations for Constructing Quality Pavements

How to Maintain
Maximize the ROI of Your Pavement Investment

How to Rehabilitate
Proactive Pavement Rehabilitation Options

What Lies Ahead
The latest in Asphalt Technologies

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 keeping your facility in tip-top shape.

Instructors

Tim Murphy PE, President, Murphy Pavement Technology, Inc.
Tim promotes best practices within the asphalt industry on local, regional, and national levels. He works collaboratively with agencies, associations, consultants, suppliers, and contractors to ensure asphalt quality 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 his 40+ years working in the consulting industry.

Dan Staebell, Northcentral Regional Director, APA
Dan has 35 years+ of Asphalt Paving knowledge working in all facets ranging from Estimating, Project Management, Construction, Liquid Binder Technologies, and Marketing. Dan works with APA Partners: NAPA, A and the Regional State Asphalt Paving Associations.

Join us April 17 & 18, 2018
Commercial and Industrial Parking Lot Training
NIU Naperville Conference Center
1120 E Diehl Rd, Naperville, IL 60563

8.5 Hours of PDH's credits for Professional Engineers will be provided with training.

Space is limited. To reserve your spot today contact the Asphalt Pavement Alliance office – Sandy Hager at shager@asphaltroads.org or 904.446.0758.

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

APA ASPHALT PAVEMENT ALLIANCE

Asphalt.

AMERICA RIDES ON US



Women of Asphalt



Please join us for the debut of

women of asphalt COUNCIL

World of Asphalt

Houston Convention Center

March 6, 2018 | 3-5 pm

Mixer (Free wine and beer)

APA booth (#3455) and AI booth (#3457)

March 7, 2018 | 1-3 pm

Women of Asphalt Council forum

Room 360 A&B

Discussion on the WOA council and a roundtable with ladies in the industry, plus a presentation from Dr. Audrey Copeland, NAPA VP for Engineering, Research and Technology

For more information, contact Asphalt Pavement Alliance at 904.446.0758



Sponsorship Opportunities
Available

Asphalt.

AMERICA RIDES ON US



Create an Environment



Asphalt.

AMERICA RIDES ON US



Thank You!

Dan Staebell

APA

Northcentral Regional Director

dstaebell@asphaltroads.org

608-440-0142 Cell



Asphalt.

AMERICA RIDES ON US

