

APA Deployment Update

January 17, 2017 Amy Miller, P.E. National Director, APA





ASPHALT PAVEMENT ALLIANCE

Pavement Economics Committee Deployment **Go-To-Market** • Seven Task Groups **Task Group Task Group** Other Research Asphalt Institute • NCAT **Future Research** SAPA NATIONAL ASPHALT ASPHALT INSTITUTE PAVEMENT ASSOCIATION

APA ASPHALT PAVEMENT ALLIANCE

Pavement Economics Committee



Best Quality & Competitiveness

Environmental

Sustainability



Pavement Type Selection

Pavement Design







Pavement Preservation



Private Sector Markets & Local Roads



PEC Task Groups

Pavement Economics Committee

Technology & Innovation



Best Quality & Competitiveness



Pavement Design







Pavement

SAFE. SMOOTH. DURABLE.











Pavement Type Selection

MF Design Implementation plemente Vill Not Implemen WA мт OR SD WΥ NE ΝV UΤ со CA KS мо ОК AZ NM

- State of the Practice
- Recalibration Procedure for the Structural Asphalt Layer Coefficient (AASHTO 93)

Reports and Synopses Posted on: www.ncat.us



Pavement Design & Materials Selection

Research & Technology

Market Research & Communications

Deployment Activities



Factsheets Infographics Videos **Presentations Advertisements** Media Outreach More



PAVEMENT DESIGN Simplified



Designing the right pavement for the job just got easier thanks to PaveXpress, a free web-based pavement design tool for roadway and parking lot pavements.

PaveXpressDesign.com







APA ASPHALT PAVEMENT ALLIANCE

GTM Support

Go To Market Effort









The Challenges

Grow Market Share

Competitive Materials

Road Owner Perceptions

Make Asphalt Sexy

The Strategy

Focus on Human Concerns

Leverage Market Research

Connect What Drivers Want With What Road Owners Know Asphalt Delivers





Advertisements



Focused on:

- Speed of Construction
- Noise
- Smoothness
- Sustainability
- Safety

Print & Web Formats





Infographics

SPHALT DELIVERS DRIVABLITY

Six videos currently available Viewed 109,638 Times

Feel-good positive messages about asphalt, others focus on specific attributes or work to educate viewers about asphalt.







RE EXP

Perpetual pavements have been around for decades

= # = D

ASPHALT MAINTENANCE CAN BE DONE OUTSIDE OF RUSH HOUR



Digital

ROUGH ROADS Worse for Pizza Than Anchovies Drive Asphalt

ROUGH ROADS Ruin Pizza

PROTECT YOUR CHEESE

DRIVE ASPHALT

APA

IUB

APA

THE ROAD TO RICHES IS PAVED WITH ASPHALT.

\$800 MILLION

SHOP

OPEN

LOTTO

line

Fact Sheets





About 75 percent of the oil consumed in the United States is used as vehicle fuel. Despite increases in vehicle fuel economy over the past few decades, fuel costs remain a significant budget item for the public and businesses alike. Numerous factors influence the fuel economy of a vehicle from its aerodynamic properties, engine, tire pressure, and air temperature; however, just three basic forces impact fuel economy: vehicle internal friction, air drag, and rolling resistance. While these three forces always affect fuel economy, they vary in importance based on the vehicle speed.² For example, when a vehicle is traveling at 30 miles per hour, 45 percent of the energy needed to move the car is used to overcome rolling resistance, but at 70 miles per hour, the rolling resistance only comprises about 20 percent of the energy requirement.

Vehicle Energy Cor	ISU	mption b	y Speed ²		
		30 mph	70 mph		
Rolling Resistance	•	45%	20%	30 mph	70 mph
Internal Friction	•	30%	15%		
Aerodynamic Drag	•	25%	65%		

The rolling resistance forces a vehicle must overcome to maintain speed are linked to its suspension system, bearings, transmission, tire pressure, and in part, the properties of the pavement. Three pavement properties are commonly understood to influence rolling resistance:



aggregate materials in a pavement



Smoothness surface unevenness that affects perceived ride quality

Pavement stiffness how the pavement deflects under a vehicle's weight

Asphalt Pavement Alliance | 5100 Forbes Blvd, Lanham, MD 20706 | Phone 301-918-8391 | Toll Free 877-APA-0077 | DriveAsphalt.org The Asphalt Pavement Alliance is a partnership of the Asphalt Institute, National Asphalt Pavement Association, and the State Asphalt Pavement Associations

The forces that Matter for Pavement-Vehicle Interaction

APA





APA Deployment Team



Amy Miller, P.E. National Director



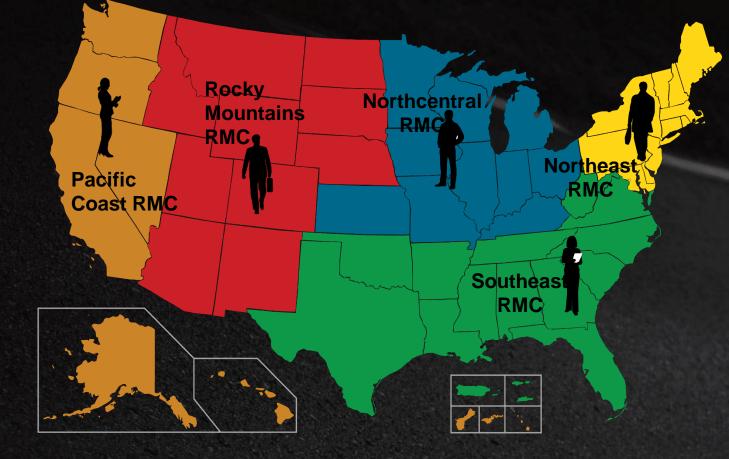


Sandy Hagar Deployment Coordinator

Dan Staebell Northcentral Regional Director



Five regional councils focused on what works in the field to the benefit of the asphalt pavement industry locally and nationally.





Regional Councils

Northeast Review

- Meeting held in March, 2016 Wilkesbarre, PA
- 50+ attendees
- Developed 3 Initiatives and Action Items
- Regional Council Created
 - Upcoming con-call



Northeast Update

DURABILITY

Goal: To protect market share by enhancing and promoting longlife asphalt pavements.

Action Items - short term:

 Presentation to promote what our states have done to enhance durability. Need to compile what each state has done. Also, describe what is coming....what we are working on for

continuous improvement.

 Develop list of key speaking opportunities to present above industry presentation: LTAP, TRB, AASHTO, ACEC, NACE, etc.





 Develop presentations and opportunities to present to design engineers and municipality engineers on mix design opportunities (RAP – move them away from always requiring DOT specs on private work).

Goals - Long term:

- Track research on performance based specifications and tests and keep states updated.
- Put together a consortium to determine if there is an interim step between current state and long-term goal.

Asphalt AVEMENTERRESERVATION



Goal: To protect and recover plant mix asphalt market share.

PAVEMENT PRESERVATION

Goal: To protect and recover plant mix asphalt market share. Action Items:

 Promote Thinlay to key stakeholders. Develop competitive message focused on northeast states. Develop simple marketing documentation that describes: process, equipment, list improvements,etc.

REGIONAL PROMOTION ACTIVITY

Goal: Give recognition to key projects and the associated

designers, contractors and owners to endorse the use of asphalt.

 Annual showcase award from each state to be celebrated at NEAUPG.



Northeast Regional Council

Asphalt Pavement Alliance

	No	Asphait Pavement Alliance <u>Northeast Regional Council – 9/7/16</u>		
Amy Miller Greg Harder	APA Asphalt Institute		(904) 591-3333 (315) 238-7000	
Bruce Barkevich	<u>NYMaterials</u>	NY	(518) 783-0909	
Chris Suttmeier	Peckham Materials	NY	(914) 403-6827	
Charles Goodhart	PAPA	PA	(717) 657-1881	
Dan Bauman	G.O. Hawbaker	PA	(814) 404-7823	
Jim Purcell	NJAPA	NJ	(609) 838-1867	
Scott Laudone	Tilcon NY	L	(973) 888-7689	
Jim Reger	Mass Agg & APA	Mass	(781) 762-2367	
Mike Barry	Palmer Paving	Mass	(413) 283-8354	
Ron <u>Simbari</u>	All-states Material Co.	Maine	(207) 249-8378	
Marshall Klinefelter Jeff Graf	MdAsphalt Maryland Paving	Maryland Maryland	(443) 220-4954	
Jim Clendaniel	Del APA	Delaware	(302) 422-3197	
Tim Peffer	Allan Myers, Inc.	Delaware	(717) 442-6113	
Don Shubert	Conn Asphalt & <u>Agg</u>	Connecticut	(860) 529-6855	
Brad <u>Oneglia</u>	O & G	Connecticut	(203) 522-2259	
Alex Phelps	Pike Industries	Vermont/N.H		



Asphalt.

AMERICA RIE

Northcentral Review

- Meeting held in July, 2016 Chicago
- 50+ attendees
- Developed 4 Initiatives and Action Items
- Regional Council Created



Initial NC Discussion

LCCA	Proper Design Thickness
PaveXpress Implementation	IRI Explorer database
Rehab Options	EPD's and Life Cycle Assessment
Perpetual Pavement	Commercial Market
HMA Recycling & Utilization	Common Technical Initiatives
Roller Compacted Concrete	Fractured Slab Technologies



Southeast Regional Meeting

- Initial group met November 14th;
- Meeting planned for February 15-16 in Atlanta, GA.



Trade Shows 2017

- ConAgg/ConExpo: Waiting List; March 7-11, 2017; Las Vegas, Nevada
- National Association of County Engineers: April 9-13, 2017; Cincinnati, Ohio
- RECON International Council of Shopping Centers: May 21-24, 2017; Las Vegas, Nevada
- American Society of Highway Engineers; June 14-18, 2017; New York, New York
- AASHTO Materials Conference: July 30-August 4, 2017; Phoenix, Arizona
- American Public Works Association: August 27-30, 2017; Orlando, FL
- Greenbuild: November 8-9, 2017; Boston, Massachusetts





Deployment Communication





New Asset of the Month Fresh from the Go-to-Market Task Group

Asset: Smoothness Advertisement Intended Audience: Pavement-type selection decision makers, asphalt pavement industry, and drivers. Format: Available in full- and half-page versions, as well as several sizes for use on the Internet.

Where: The Asphalt Vault, available in APA and customizable "add your logo" versions. Usage recommendations: Share on social media, use in print or electronic newsletters and publications, as well as in emails geared to reach state DOT officials, public works agencies, consulting engineers, and design-build firms.

Why Smoothness? FHWA has determined that pavement smoothness is a key factor in ensuring driver satisfaction. Also, a May. 2016 report from the International Grooving and Grinding Association packs.



Designing the right pavement for the job just got easier thanks to PaveXpress, a free web-based pavement design tool for roadway and parking lot pavements. PaveXpressDesign.com

What is Old is New Again... Don't forget this oldie but goodie

tool

Focus: Proper Pavement Design Intended Audience: Pavement designers, consulting engineers, students, local agencies Format: Free, web-based pavement design

Where: www.pavexpressdesign.com, support materials (instructional PowerPoint, advertisements, brochure, etc.) are available via the Asphalt Vault Usage Recommendations: Put together a lunchand-learn with local agencies - cities. municipalitiwes, consulting firms, DOTs, DPWs, etc. - to highlight the tool. If you can, offer free CEU/PDH credits to help encourage attendance. A customizable PowerPoint file is available for such a presentation. To understand all the features, view a free, training webinar, found here: PaveXpress Webinar. You can also demo the program at local trade shows or when meeting with local engineers or



Story of the Month

Recently, Jim Warren, Executive Director for the Asphalt Contractors Association of Florida used the "When It Comes to Sustainability, Drivability Matters" infographic and ad as to sponsor a part of a packet of information distributed to engineers at the Florida Association of Counties Annual Meeting in Orlando, FL. These documents were merged to become a two-sided document. This was a perfect fit as Florida cities and green codes are looking for ways to use pavements as an opportunity to meet local and county sustainability requirements. Way to go, Jim!

> REMEMBER: Next APA Deployment Webinar November 15, 2016



Asphalt.

AMERI

Deployment Communication

- Monthly Con-call 3rd Tuesday Monthly
 - 20-40 Attendees
 - Standard items: PEC/GTM Update, APA Regional Effort Update, Competition Issues, Legislative Issus, Asphalt Institute Regional Engineer Update
 - Featured Speaker



Deployment of GTM Assets

- Social media webinars for SAPAs
- Monthly social media calendar





Make this election day a smooth one by driving an asphalt route to the polls! #ElectionDay #Vote2016

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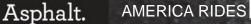




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Asphalt Vault

- Repository for State Execs
- First full year in use

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Any Questions?

Amy Miller amiller@asphaltroads.org

Asphalt Pavement Alliance

presents



Perpetual Pavement Award Interstate 180

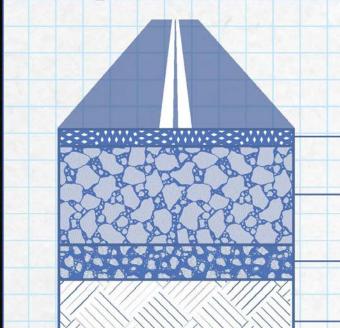


Pennsylvania Asphalt Pavement Association Pennsylvania Rides on Us.



How To Design A Road To Withstand Time, Traffic, and Taxpayers

erpetual Pavement Design



Asphalt Surface

Renewed periodically. Maintained to ensure a high level of drivability. Surface type can be customized depending upon needs: open-graded friction courses for safety, stone-matrix asphalt for added durability, Thinlays^M for pavement preservation, etc.

Asphalt Base

Stiff structural layer designed to distribute loads and resist structural rutting. Optimizes materials and costs with use of RAP, RAS, and other recycled materials.

Ratigue-Resistant Asphalt Layer Flexible layer designed to prevent fatigue cracking and bottom-up cracking. The overall thickness of the structure and the materials of this layer help limit the maximum tensile strain to below the fatigue endurance limit.

Pavement Roundation The subgrade may be stabilized or unstabilized





Perpetual Pavements





Criteria:

Asphalt.

AsphaltRoads.org

AMERICA RIDES ON US

2015 PERPETUAL

PAVEMENT AWARD

NOMINATION FORM

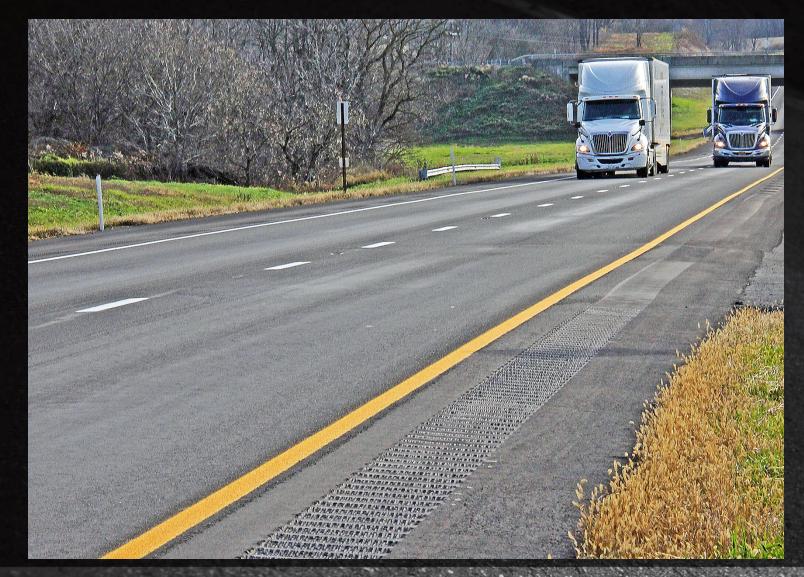
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Asphalt

Municipal Roadway/Street

- 35+ years old
- 13+ years between overlays (average)
- No increase > 4"







Congratulations!





nterstate 180 MM1.5-MM4.5



THANK YOU!

