

Southeast Regional Concrete Pavement Forum

**PennDOT Districts 6 & 8
& Pennsylvania Turnpike
October 8, 2020**

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Team Meeting Courtesies

- Please put your speaker on mute unless speaking
- When speaking/asking question, please first state your name (we all are not familiar with everyone's voice)
- Format includes four short presentations with time for dialogue & discussions
- Do not hesitate to ask questions or add commentary; if you have a question/concern, you are most likely not the only one thinking the same
- Please take personal/coffee breaks as needed

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TODAY'S ATTENDEES

Sud AB	PennDOT District 6	Chris Faria	Pennsylvania Turnpike
Tim Cullen	PennDOT District 6	Phaedra Worley	Pennsylvania Turnpike
Charles Davies	PennDOT District 6	Phaedra Farn	PennDOT
Wesley Early	PennDOT District 6	Jan Crabb	PennDOT
David T. Giacomin	PennDOT District 6	Neal Farnes	PennDOT
Stacy Housler	PennDOT District 6	Jeffrey Freeman	PennDOT
Scott Jurgan	PennDOT District 6	Caprice Henderson	PennDOT
Stacy Lewis	PennDOT District 6	Chris Kelly	PennDOT
Stephanie Mackin	PennDOT District 6	Christine Springer	PennDOT
Vivian M. Marable	PennDOT District 6	Don Mastromarino	Furn Miller Company, The
Harold Winkler	PennDOT District 6	Shirley Sullivan	HARCO Corporation
James Salomon	PennDOT District 6	David Sillis	Robco-Permag-Concrete-Flex
Chris DeLo	PennDOT District 6	Kevin Chaffery	AWY EcoSolutions
David Pothmann	PennDOT District 6	Jeffrey Klein	KWY EcoSolutions
Shelia Proctor	PennDOT District 6	Walt Proctor	J. J. Anderson Construction
Robert Mrazek	PennDOT District 6	Tom Marlow	J. J. Anderson Construction
Christa Reimann	PennDOT District 6	George Swanson	Permatex
Chris Taylor	PennDOT District 6	John Becken	ACM/PA
Vincent Schaeffer	PennDOT District 6	Rich DeLo	ACM/PA
Brian Sturison	PennDOT District 6		
Christopher Vignoli	PennDOT District 6		

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Concrete Pavement Forum AGENDA October 8, 2020

12:45	Welcome & Introductions
1:00	Concrete Conference Overview (Becker)
1:20	Discussions
1:30	Concrete Pavement Restoration (Cribben)
1:50	Discussions
2:00	Long Life Concrete Pavement (Jucha)
2:20	Discussions
2:30	Concrete Overlays (Becker)
2:50	Discussions
3:00	Adjourn

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Southeast Regional ACPA/PA Concrete Pavement Forum

**2020 Conference Highlights & Updates
John M. Becker, P.E.
ACPA/PA**

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PENNSYLVANIA CONCRETE CONFERENCE

Count on CONCRETE

- PennDOT Program Updates
- National Updates
- Performance Engineered Mixtures
- Work Zone Safety
- Competition
- Full-Depth Reclamation
- Pavement Design
- Early Opening to Traffic
- Emerging Pozzolans
- Friction Study
- Innovations & Cost Savings
- Concrete Certification
- Shrinkage Reducing Admixtures
- Pipe Sustainability & Resilience
- Precast Bridge Showcase
- Student Research

Recorded Presentations Available at LongerLifePavement.com

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PENNDOT 2020 **PROGRAM UPDATES**

CONSTRUCTION MATERIALS

Material	2015	2016	2017	2018	2019	2020*
Asphalt	6,712,000	6,186,000	7,311,000	1,183,000	6,948,000	6,804,000
Asphalt	150,000	711,000	194,000	792,000	323,000	400,000
Concrete Paving	637,000	681,800	323,000	449,000	283,000	338,000
Asphalt	11,097,000	7,568,800	7,828,000	2,424,000	7,554,000	7,442,000

* 2020 Projections

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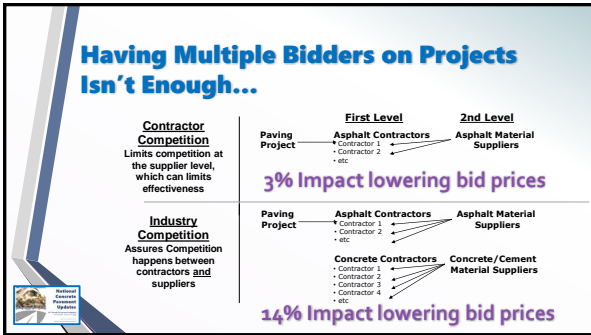
National Concrete Pavement Updates

ACPA Annual National Conference
Presented by the International Road & Transport Builders Association

COMPETITION

Being smart with money. The use of paving competition and performance based pricing.

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MIT Comprehensive Multivariate Analysis

- 10 years of DOT bid-pricing data
- 47 state DOTs
- 164,000 projects
- 298,000 pay items (concrete & asphalt paving)

For a state spending an average of 5% on concrete, an increase to the best of quality asphalt shales...

CONCLUSION: "...increasing competition between paving material industries lower paving costs for both asphalt and concrete jobs. This is likely to result in significant savings for DOT's and taxpayers."

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OPTIONS IN THE TOOLBOX

WE HAVE A BIGGER TOOLBOX

CONCRETE ROUNDABOUTS

PULL DEPTH RECLAMATION WITH PORTLAND CEMENT

STEP 2

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CONCRETE & CONCRETE/ASPHALT SOLUTIONS FOR THE HIGHWAY INFRASTRUCTURE

Advanced Concrete & Asphalt Solutions (Focus on Best)

CONCRETE & CONCRETE/ASPHALT SOLUTIONS FOR THE HIGHWAY INFRASTRUCTURE

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INNOVATIONS

ACADEMIA

ACADEMIA INNOVATIONS collage featuring various research posters and presentations on concrete technology.

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Performance Engineered Mixtures - Testing What Matters

Identified Properties Controlling Concrete Mixtures Performance:

- Fresh transport properties - how concrete is placed, placed, and cured
- Strength - the ability to carry loads and resist loads
- Cold weather - the ability to resist freezing and thawing and the effects of deicing salts
- Shrinkage - the ability to resist cracking as well as swelling
- Aggregate stability - the ability to resist aggregate movement and deterioration
- Durability - the ability to resist the effects of the environment and the other factors that the effects to increase your workability can impact durability

Testing methods shown: Resolvis, V-kelly, Dual Ring, Box Test, SAM.

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OWNER/INDUSTRY PARTNERSHIPS

OWNER/INDUSTRY PARTNERSHIPS collage featuring various industry partnership posters and presentations.

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Surface Friction Testing

- Issue: Diminishing availability of high-quality aggregate
- Evaluate PennDOT special provision where E & L aggregates are blended at 50% to achieve an acceptable SRL
- Work being performed by the University of Texas, funded by Golden Triangle, Allegheny Minerals, & Amerikohl, in co-operation with PennDOT

100% SRL-L
 15% SRL-E & 85% SRL-L
 20% SRL-E & 80% SRL-L
 35% SRL-E & 65% SRL-L
 100% SRL-E

1st Surface Finish: Surface Drag/Longitudinally Tined
 2nd Surface Ground
 3rd Surface Ground & Grooved (NGCS)

- Samples tested with DFT to measure loss (or gain) in friction
- Final report to be released later this year

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Upcoming Webinar Schedule
 Concrete Pavement Technology Tuesday
 Third Tuesday of the Month

- October 20 - Concrete Roundabout Design & Construction
- November 17 - Life Cycle Cost Analysis and Pavement Design
- December 15 - Concrete Pavement Thickness Design and Slab Geometry

The Webinar Series is offering Professional Development Hours (PDH's); sign-up at <https://go.acpa.org/cp-tech-center-2020>

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Questions & Dialogue

Our Questions for You

Are there any topics that you would like to see covered at upcoming ACPA/PA events or by CP Tech Center webinars ?

Have any of you accessed any of the prerecorded presentations from past conferences (located at the ACPA/PA website) ?

Your Questions/Comments

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