

# ACPA Pennsylvania Chapter Concrete Pavement Meeting

hosted by  
**PennDOT Engineering District 12**  
**Pennsylvania Turnpike Commission**  
**PennDOT Engineering District 11**  
 August 16, 2018



Thursday, August 16, 2018

## 1st Session

800 am

### Welcome

Facilitator: Richard R. Jucha, P.E.

**John M. Becker, P.E.**, ACPA/PA

810 am

### Tour Overview

**William L. Kovach, P.E.**, ADE/Construction, PennDOT District 12

830 am

### PennDOT Initiatives, **George W. McAuley, P.E.**, Deputy Secretary

900 am

### Topic Overviews (ten minutes each)

New Standards/Specifications (**Neal W. Fannin, P.E.**)

Performance Engineered Mixtures (**Patricia I. Baer**)

Just-In-Time Training (**Christopher Forry**)

Joint Sealing/Filling Issues (**David L. Jarvis, P.E.**)

940 am

Break

## 2nd Session

Facilitator: Steven L. Koser, P.E.

1000 am

### Roundtable Discussion on Concrete Pavement Topics/Issues

Joseph F. Cribben, P.E. & John M. Becker, P.E.

12 noon

Adjourn (box lunches to go, included with your registration)





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A special thank you to the following companies for their contributions towards the cost of the 2018 provided to the construction workers, as well as, and for helping to ease the burden and problems attending this event.


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830 am	<b>PennDOT Initiatives</b> , George W. McAuley, P.E., Deputy Secretary	
900 am	<b>Topic Overviews</b> (ten minutes each) New Standards/Specifications (Neal W. Fannin, P.E.) Performance Engineered Mixtures (Patricia I. Baer) Just-In-Time Training (Christopher Forry) Joint Sealing/Filling Issues (David L. Jarvis, P.E.)	
940 am	Break	
<b>2nd Session</b>		<i>Facilitator: Steven L. Koser, P.E.</i>
1000 am	<b>Roundtable Discussion</b> on Concrete Pavement Topics/Issues Joseph F. Cribben, P.E. & John M. Becker, P.E.	
12 noon	Adjourn (box lunches to go, included with your registration)	







## Roundtable Discussion

### Observations from Yesterday's Site Visits

20 minutes

- **Noteworthy Practices**
- **Opportunities for Improvement**
- **Questions/Comments**

### Session 1 Follow-Up Questions

20 minutes

- **New Standards/Specifications**
- **Performance Engineered Mixtures**
- **Just-In-Time Training**
- **Joint Sealing/Filling**



## Roundtable Discussion

### Discussion Topics

40 minutes

- ✓ ◦ Why are non-destructive testing methods/concepts not widely used?
  - ✓ ◦ **Have the new ASR specification created challenges with cool spring temperatures?**
- ✓ ◦ Why are keyways sometimes required between the mainline & shoulder joint?
  - ✓ ◦ **How is the microwave oven test working for determining water/cementitious ratio?**
- ✓ ◦ What are challenges that need to be overcome for the use of concrete overlays?
  - ✓ ◦ **How should we be handling dominant joints during design and construction?**
- ✓ ◦ Does cement stabilization hold promise for future projects in Pennsylvania?
  - ✓ ◦ **What are some of the best practices being employed for concrete spall repairs?**

### General Topics for Roundtable Discussion

40 minutes

- ☑ ◦ **CPQI Initiatives**
- ☑ ◦ **Pavement Texture**
- ☑ ◦ **Ride Specifications**
- ☑ ◦ **Training & Education Needs**



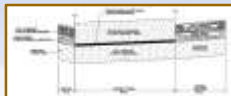
## CPQI Priority Items

- 1) Long Life Concrete Pavements
- 2) Material Optimization
- 3) ASR Mitigation
- 4) Testing of aggregates to take place on a three-year cycle
- 5) Jointing
- 6) Joint issues on hold awaiting issuance of new FHWA Technical Advisory
- 7) Concrete Pavement Rehabilitation
- 8) New patching standards incorporated into RC standards
- 9) Full-depth corner repair standard/special provision developed by PTC
- 10) Full-depth longitudinal joint repair standard being developed



## CPQI Priority Items

- 11) Concrete Overlays
- 12) Section 523 (formerly ultra-thin white-topping) to be updated to a new Section 541
- 13) New standards in place for Bonded concrete over concrete, bonded concrete over asphalt, unbonded concrete over concrete
- 14) Standard change requiring tying of outermost longitudinal joint under consideration
- 15) Life Cycle Cost Analyses
- 16) Department (Central Office & Districts) have completed review of maintenance cycles (no changes proposed)



## CPQI Priority Items

17) In industry hands for comment/review. Industry requested to provide input on proposed cycles for long life pavements TBD

18) Implementation of Pavement ME

19) Designs being done using AASHTO 93 with companion Pavement ME designs

20) Sensitivity of CTE on concrete pavement design being investigated

21) Metrics for Construction Quality

22) Performance engineered mixes



## CPQI Priority Items

23) Ride specifications (507); w/c ratio (530 only)

24) Strength & Testing

25) Use of the maturity system for opening to traffic

26) Reevaluating opening to traffic criteria (conventional and accelerated)

27) Skid & Surface Texture

28) Evaluating method for how Vanport limestone is being used is under review

29) Evaluating skid characteristics of diamond ground and grooved pavements



## CPQI Priority Items

30) NGCS specifications have been approved; to be included in next version of Pub 408.



31) Just-In-Time Training/JIT2

32) Turnpike & PennDOT Standard Special Provisions have been/are being used on all Southern Beltway concrete paving projects and select PennDOT projects (e.g., US-422/District 6, I-70/District 12, I-95/District 6, others)

