

## Top Regional Initiatives

- Quality Construction Instruction
- Pavement Preservation

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**POSITION PAPER** NATIONAL ASPHALT PAVEMENT ASSOCIATION  
Thinlays: The Pavement Preservation Tool of Choice  
NAPA Position on Thin Asphalt Overlays for Pavement Preservation

**THINLAYS**  
SAFE. SMOOTH. DURABLE.

Visit [ThinlayAsphalt.org](http://ThinlayAsphalt.org)

## APA National Deployment

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## Top National Initiatives

- PaveXpress
- Commercial Market Strategies
- LCCA

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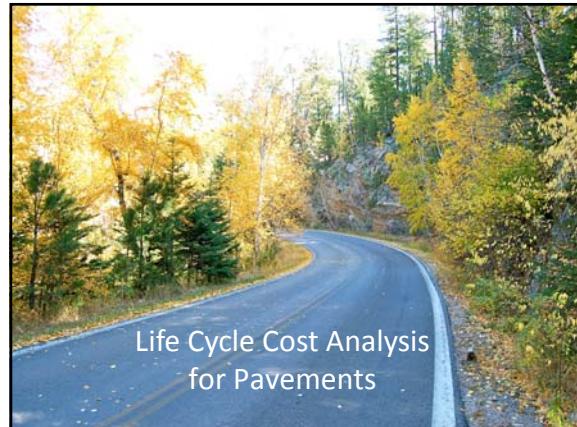


- Free, Simplified Design Tool
- Web-Based (Always Up-to-Date)
- AASHTO 93/98
- Flexible & Rigid
- New Construction & Overlays
- Default or Custom Values
- Context-Specific Help

[www.PaveXpressDesign.org](http://www.PaveXpressDesign.org)

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**PaveXpress**



Life Cycle Cost Analysis  
for Pavements

## LCCA Express Software

- Based on FHWA
- Download at asphaltroads.org

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## LIFE CYCLE COST ANALYSIS for PAVEMENTS

- Module 1: Basic LCCA concepts, steps, and inputs
- Module 2: Concrete marketing myths and reality
- Module 3: Example LCCA

### Educational Program

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## Module 1

### Outline for Module 1

- Overview of LCCA
  - Why use an LCCA?
  - Elements of LCCA
- Key LCCA Inputs
  - Analysis Period
  - Maintenance Periods
  - Cost Data
  - Discount Rate
  - Salvage Value
  - User Costs
- Other Related Issues
  - Pavement Design
  - Triggers

Analysis Methods and Programs

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## Module 2

### 3 CONCEPTS PROMOTED BY THE CONCRETE PAVEMENT INDUSTRY

- 1. The Materials Specific Discount Rate**  
Trying to predict commodity prices is a foolish venture.
- 2. The Unfair Advantage of the Asphalt Index**  
Price adjustment clauses are a fair way to deal with volatile material prices.
- 3. Predictions by the MEPDG are gospel**  
Use real performance data to set performance periods.

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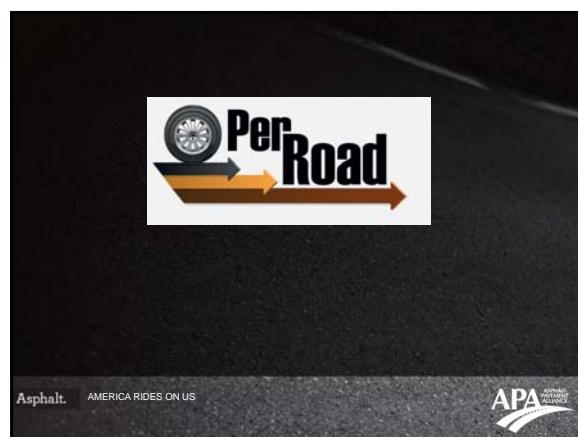
## Module 3

### Learning Outcomes

- Demonstrate the program LCCA for conducting an example life cycle cost analysis
- Review the inputs required for an LCCA
- Review the differences between Deterministic and Probabilistic analyses

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Coming December, 2017



**PaveXpress**

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**IRI Explorer**

**Pavement-Vehicle Interaction**

**UHI & Albedo Requirements**

**NCAT Modules**

NAPA  
SAPA

**Criteria:**

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

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**Perpetual Pavement Award**

Ten states received in 2017:  
Alabama, Arkansas, Colorado,  
Florida, Minnesota, Montana,  
**Pennsylvania**, South Carolina,  
Tennessee and Washington.

ON US

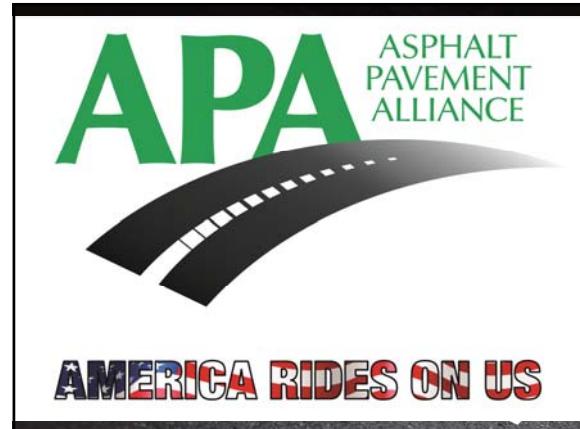
**SR 73 Berks County**

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Debut: World of Asphalt  
Houston, 2018

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