North East Asphalt User/Producer Group

Asphalt Pavement Alliance Update
October, 2018
Research & Technology

Pavement Economics Committee
- Seven Task Groups

Other Research
- Asphalt Institute
- NCAT

Future Research

Market Research & Communications

Go-To-Market Task Group

Deployment Activities

Deployment Task Group
NE Collegiate Asphalt Mix Design

Participating Colleges:
Alfred State
Clarkson
Columbia
Manhattan
Rogers Williams University
Rowan
Rutgers
UMass
University of New Hampshire
University of Rhode Island
Villanova
APA Northeast Showcase Awards
PAVEXpress

- 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
Additional PAVEXpress Functions
Life Cycle Cost Analysis

- Initial Expenditure
- Maintenance Implications
- Operational Performance
- Value vs. Risk
- Scenario Alternatives
Layered Elastic Analysis

Figure 1. Layered elastic analysis diagram.

Figure 3. EverFlex 3-D drawing (adapted from Wu, 2001). The drawing shows the discrete elements, wheel loads (one patch load), a modeled crack, and a slip interface (where one layer can slip - move independently - from another).
Parking Lot Design Guidance
Porous Pavement Design

Asphalt.  AMERICA RIDES ON US
PAVEInstruct Modules

- Overview
- New Flex and Rigid Pavement Designs
- Overlays
- MEPDG
- Perpetual Pavements
- PerRoad
- Porous Design
- LCCA

www.PaveXpressDesign.com
In conclusion, our analysis confirmed that the calculations and results provided by PaveXpress are within acceptable tolerances of those results provided by both the AASHTO Guide for Design of Pavement Structures (AASHTO 1993) and Supplement to the AASHTO Guide for Design of Pavement Structures, Part II – Rigid Pavement and Rigid Pavement Joint Design (AASHTO 1998) and, in our professional opinion, PaveXpress calculates pavement designs consistent with the methodologies presented in AASHTO ’93 and ’98.

We appreciate the opportunity to provide these services for the Asphalt Pavement Alliance.

Sincerely,

Gary W. Sharpe, P.E., PLS
Senior Project Manager
Thinlays: The Pavement Preservation Tool of Choice
NAPA Position on Thin Asphalt Overlays for Pavement Preservation

Visit ThinlayAsphalt.org
Perpetual Pavement Award

Congratulations Pennsylvania DOT!
Women of Asphalt is a national coalition which supports women in all aspects of the asphalt industry through mentoring, education, and advocacy, and by encouraging women to seek careers in the asphalt industry.

www.womenofasphalt.org

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Questions?

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