Webinar Agenda

• Introduction (Mike Kvach – Asphalt Pavement Alliance)
• Overview of PaveXpress (Trenton Clark – Virginia Asphalt Association)
• PaveXpress Demo (George White – Pavia Systems and Trenton Clark)
• Next Phases For PaveXpress (Trenton Clark)
Application Objectives

• Provide tool to develop technically sound pavement designs for roadway and parking lot pavements
• Provide a user-friendly, visually appealing, pavement design tool accessible to users on a variety of devices
• Provide a free application for conducting pavement designs following 1993 and 1998 AASHTO
• Provide resources to enhance understanding and comfort with pavement design
Potential Application Users

- Local Government Agencies
- A/E/C Firms
- Engineering Students

Guiding Principles for Application

- Provide accurate un-biased results...be a trusted resource
- Only ask the user for what is required to perform a technically sound design
- Where appropriate suggest industry accepted defaults to minimize user input
- Provide context sensitive help and guidance

I don’t always do pavement designs, but when I do, I prefer PaveXpress.

Image from thenewinteretingsoftheworld.com
Approach: Web Delivery

- Browser based delivery
- Available via the web
- Supports all kinds of devices/OS
  - Desktops
  - Laptops
  - Tablets (7" – 10" - includes iPad Mini on up).
  - Handheld device capabilities
- Easily scalable and updatable

Approach: Technical

- Provide technically sound designs using:
  - Flexible: AASHTO ’93
  - Rigid: AASHTO ’93 w/ ’98 Supplement
  - Parking lot guidance (Flexible only)
- Use industry accepted standards and guidance
- Linkages to State and Local guidance
- Linkages to Pavement Interactive

Three Different Design Scenarios

- Flexible and Rigid Pavement Design for a Local Route
- Flexible and Rigid Pavement Design for a Heavy Duty Parking Lot
- Flexible Pavement Design for a Light Duty Parking Lot
LET’S TAKE A CLOSER LOOK!

Future of *PaveXpress*

A framework to continue to build upon:
- Overlay design (empirical)
- Simplified mechanistic design for both new construction and overlays
- Comparison tools for mechanistic and empirical methods
- And more

Questions and Answers Time
Need More Information

- PaveXpress Weblink
  - www.pavexpressdesign.com

- Future questions can be directed to your local asphalt pavement association
  - Dr. Audrey Copeland of NAPA (Audrey@asphaltpavement.org)
  - Trenton Clark of VAA (tclark@vaasphalt.com)
  - George White of Pavia (George@paviasystems.com)
  - Mike Kvach of APA (mkvach@asphaltroads.org)