

North Central Superpave Center Update

by

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Status Update

- Training
- Communication and Technology Transfer
- Research
- Equipment/Protocol Evaluations
- Future Plans



Training in 2003

- Continued Emphasis
- Binder course, March 4-6
- Fundamentals Mix Design for beginners, February 24-27
- Mix Design course for experienced designers, February 10-11
- Customized courses available on request



Video Production

- Binder rotational viscometer, BBR and DSR video posted on website
- Direct tension video in progress. SGC and DAV being considered.
- Completed RAP video in 2002.
- Will be advertised by NAPA and distributed by TRB soon.
- Very well received.



Training Videos

The screenshot shows a Netscape browser window titled "Training Videos Table of Contents - Netscape". The address bar displays the URL: <http://bridge.ecn.purdue.edu/~spave/Videos/Training%20Videos%20TOC.htm>. The page content includes a logo for "Superpave Training Videos" and three columns of video options:

Bending Beam Rheometer	Dynamic Shear Rheometer	Rotational Viscometer
Download	Download	Download
Stream/Play	Stream/Play	Stream/Play

Below the columns is a [Back Home](#) link. At the bottom of the page, there is a copyright notice: "© 1997 North Central Superpave Center", contact information "E-mail your comments to: warble@ecn.purdue.edu", and a modification date "Last modified: December 10, 2002". The browser's status bar at the bottom shows "Document: Done".

Communication

- *Another major emphasis area*
- *Newsletter (regional and national editions)*
 - ◆ hard copy mailed to ~4000 people
 - ◆ electronic copies available on web page
 - ◆ coordinated, printed and distributed by NCSC three times a year for three centers
 - ◆ Current contract with NCSC and SESC only
 - ◆ Next issue Spring 2003
- *Presentations*
- *Inquiries*



Website

- ***Website***
 - ◆ Maintained and updated periodically
 - ◆ Addition/expansion continuing
- ***Searchable database well received and expanding***
- ***Training Videos***
- ***Calendar***
- ***Technical Information***
- ***Links***

<http://bridge.ecn.purdue.edu/~spave/>



Equipment/Protocol Evaluations

- FHWA sponsored evaluation of candidate simple performance tests
- Ruggedness testing on Binder Direct Tension in Progress
 - ◆ 600+ samples
- Round robin on automated aggregate specific gravity device upcoming
- Work with NCAUPG Technicians' Group
- Other suggestions?



Special Testing

- *IDT Testing for CIR Design*
- *SST referee testing for low air void mixes in Indiana*
- *Others as needed*

Completed Research at the NCSC

- *Use of Reclaimed Asphalt Pavement Under Superpave Specifications* **Completed**
- *Performance Evaluation of Fiber-Modified Asphalt Mixes* - **Completed**
- *Asphalt Additives to Control Rutting and Cracking* - **Completed 1/31/03**



Ongoing Research at the NCSC

- *Identification of Laboratory Techniques to Optimize Superpave HMA Surface Friction Characteristics - Iowa, Indiana and SQDH*
- *Effects of Hot Plant Fuel Characteristics and Combustion Conditions on Asphalt Concrete Quality - SDDOT (March 2003)*
- *Performance Certification of Indiana Superpave Hot Asphalt Mixes - INDOT*
- *Superpave Simple Performance Testing*



Ongoing Research at the NCSC

- *Evaluation of Porous Asphalt Mixes (SQDH)*
- *Evaluation of Surface (Top-Down) Longitudinal Wheel Path Cracking in Indiana*
- *F-SHRP Renewal* (April 2003)
- Pending
 - ◆ NCAT Pooled Fund study on Noise
 - ◆ Other new projects
- *Open to research collaborations and suggestions*



Future Plans

- Potential areas of joint activities
 - ◆ MP1a implementation/investigation
 - ◆ DAV
 - ◆ RAP assistance
 - ◆ Ignition oven for carbonates
 - ◆ Friction and surface texture evaluations
- Field forensic investigations
- New lab/offices in Summer 2004 (Thanks to INDOT)
- Continuing to work, grow, evolve to serve our region



NCSC

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