North Central Superpave Center Update

by

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NCAUPG Meeting
January 29, 2003
Milwaukee, Wisconsin
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

Superpave Training Videos

Bending Beam Rheometer
- Download
- Stream/Play

Dynamic Shear Rheometer
- Download
- Stream/Play

Rotational Viscometer
- Download
- Stream/Play

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E-mail your comments to: webmaster@nc superbave.edu
Last modified: December 10, 2002
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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