



# North Central Superpave Center Regional Update

*North Central Hot Mix Asphalt Conference  
February 4, 2009*

# Outline

- Briefly review current areas of activity and research
- Summarize results of state visits

# Current Activities

- Research
- Technology Transfer
- Technical Support
- Training

# Research Area - Recycling

- Long term focus of the NCSC
- Continuing research efforts
  - effects of RAP aggregates on surface friction
  - effects of plant production on RAP mix properties (with UW)
  - design of high RAP content mixes (with NCAT and UNH)
- RAP characterization for contractor mix design
- FHWA RAP ETG

# Tire/Pavement Noise

- Quiet Pavement Study (FHWA)
- Long Term Performance of a Porous Friction Course
- Noise testing in field or lab
- Maintain library of Institute for Safe, Quiet and Durable Highways

# Surface Characteristics

- Field and laboratory surface texture and texture testing capabilities
  - Accelerated lab polishing
  - Field testing for tack coat study, seal coats, noise studies
- Research on
  - Quiet Pavements
  - Effects of RAP aggregate on friction, effects of local (carbonate) aggregates – blending
  - Optimization of gradation and agg type

# Technology Transfer

- Sharing information around and beyond the region through
  - Web
  - Newsletter
  - Presentations
- Increasingly electronic – webcasts, blogs/discussion groups, etc.
- Information requests

# Technical Support

- Equipment evaluations
  - ex. ABCD device ruggedness
- Testing
  - Binder, Mix, Aggregates, RAP
  - Forensics
  - Noise
  - Friction/texture
- Standards Development
- Third party testing



# Accreditation

- Steering Committee stressed importance
- NCSC pursuing accreditation of main lab
  - Inspection/site visit in May
  - Binder Branch (INDOT) already accredited
- Increase viability for third party testing

# Training

- Less emphasis now than in early years
- Looking for needs in region
- Customized training on request
  - Your place or ours
  - Group or one-on-one
  - Internships or short term “shadowing”
- Planning more web based training

# Summer 2008 State Visits

- NCSC staff visited most states in the region
- Met with various DOT people, and some industry and academic representatives
- (Re)introduced ourselves
- Discussed issues, concerns, areas of research
- Felt the pulse of the region

# “Big Ten” Common Interests

- Topics identified by three or more states
- Shows areas of regional interest
- Working with NCSC Steering Committee to plan activities
  - Sharing what states are doing
  - Newsletter articles, white papers, etc.
  - Research efforts
  - Training needs
  - Conference topics

# “Big Ten” Common Interests

- **Cold In-Place Recycling**
  - Share synthesis results and state practices
- **Longitudinal Joints**
  - Survey state practices
  - Share circular (in progress)
- **MEPDG and Dynamic Modulus testing**
  - Regional clearinghouse
  - Regional round robin?
  - Training?

# “Big Ten” Common Interests

- Overlays over specialty surfaces (SMA, PFC/OGFC, surface treatments, etc.)
  - Share state practices
  - Look beyond the region for experience
- Pavement Preservation
  - Share information regionally
  - Provide links to other focused groups

# “Big Ten” Common Interests

- **Polyphosphoric Acid**
  - Help disseminate results/discussion from upcoming workshop in MSP
  - Plot course of action following workshop
- **Surface Characterization**
  - Continue/expand previous work

# “Big Ten” Common Interests

- Tear Off Shingles
  - Survey state practices then ...

## Warm Mix

- Testing Warm Mix with RAP samples for Missouri
- Potential research area



# Summaries of State Practices

- Many potential topics
  - Warranties
  - Tack Coats
  - Training and Certification Programs
  - Test methods
  - Pavement design standards
- Working with Steering Committee to establish priorities and schedule
- Findings may suggest further efforts

# Questions and Comments?