

# North Central Superpave Center Update

by

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# On-Going Projects

## Surface Characteristics

- *Quiet Pavements (6/30/09)*
- *Long Term Performance of Porous Friction Course (10/31/08)*
- *Investigating the Feasibility of Integrating Pavement Friction and Texture Depth Data in PMS (11/30/08)*
- *BP Noise Testing (4/30/08)*

# Modern Marvels, *Superhighways*, January 28



# On-Going Projects

## RAP

- *Use of RAP in Surface Mixes (5/31/08)*
- *RAP Plant Mixes (12/31/08)*
- *Continued Monitoring of Indiana's SPS9 Site (12/31/08)*

# On-Going Projects

## Other

- *Validation of NCAT Structural Test Track Experiment Using APT (>12/31/08)*
- *History of Superpave: Anatomy of a Research Program (Late Spring)*
- *Longitudinal Joints*



# Recently Completed Projects

- *RAP Plant Mixes* (Phase 1, FHWA)
- *Use of the Ignition Oven for Dolomitic Aggregates* (Revision/review of draft final)
- *Identification of Laboratory Techniques to Optimize Superpave HMA Surface Friction Characteristics* (Revision/review of draft final)

# Recently Completed Projects

- Dynamic Modulus Ruggedness Testing (Rutgers)
- Tack Coat Texture Testing (LTRC)
- Seal Coat Permeability and Texture Testing (Foundation for Pavement Preservation)
- RAP Testing (NY contractor)

# Pending Projects

- NCAT Phase III Research - *Risk Management of Low Air Void HMA Mixtures* (Proposal development)
- Development of High RAP Content Mix Guidelines and Informational Documents (Proposal with NCAT and UNH submitted to FHWA for funding)
- Maryland SHA Polisher (awaiting funding)



# Bids

- Recycled Materials Resource Center - went back to New Hampshire
- Use of Recycled ASR PCC Materials in HMA Airfield Pavements
- NCHRP 9-46, Mix Design, Evaluation and Materials Management Practices for HMA with High RAP Content - with MSU
- SHRP II, Composite Pavement Systems - with PSU and QES

# Other Work

- Binder characterization for Illinois DOT
- SST Data Analysis for Wisconsin DOT
- Reviewed 2 proposals for Highways for Life
- Member:
  - ◆ TRB General Issues in Asphalt Technology (Chair)
  - ◆ FHWA RAP ETG
  - ◆ LTPP Special Activities
  - ◆ AAPT (Strategic Planning), ASTM, ICAR TAC, NSSGA Research Advisory Group, etc.

# Continuing Activities

- Website - complete redesign and update searchable database
- T<sup>2</sup> - Newsletter, info requests (75-100)
- Presentations - Kansas Asphalt Paving Conference, Indiana HMA Conference, New York Asphalt Conference, Rocky Mountain UPG, RAP ETG, NAPA Energy Conservation Conference, TRB, AAPT, Rocky Mountain Asphalt Conference (Feb)

# Future Collaborations

- Always looking for collaborations
- Suggested Areas
  - ◆ Friction and texture
  - ◆ Noise testing
  - ◆ SPT Testing and Analysis
  - ◆ Binder Characterization
  - ◆ RAP Mixture Evaluations
  - ◆ Surface Energy

# Input?

- Training needs - regular and/or new topics
- Research ideas/collaborations
- Equipment or protocol evaluations
- Other regional needs