

Meeting Minutes
North Central Pavement Research Coordination Partnership (Frozen Four)
Computer-Aided Engineering Building, Room 271
1415 Engineering Drive, Madison, WI
February 23rd and 24th

Attendees:

Hussain Bahia	UW-Madison	Pat Casey	CTC & Associates
John Glaze	WisDOT	Dave Johnson	MnDOT
Ben Worel	MnDOT	Bernard Izevbekhai	MnDOT
Deb Bischoff	WisDOT	Mike Eacker	MIDOT
Laura Fenley	WisDOT	Greg Waidley	UW-Madison
Andrew Hanz	UW-Madison	Earl Lukanen	Univ. of Minnesota
Kim Linsemayer	CTC & Associates		

Review of January's Minutes:

Minutes reviewed – see packet of information regarding specific topics discussed at the TRB meeting.

Was not able to make contact with Iowa prior to this meeting. It was suggested that once we develop more specifics related to our effort, perhaps we can again invite Iowa and they might be more willing to contribute if they see the benefit.

If we can get Iowa on board, it was also suggested that we might rotate our face-to-face meetings to allow Iowa's attendance.

Intro to Frozen Four Website

Pat Casey took us through the skeleton structure of the website. He noted that the FrozenFour.us domain name is available but the site is not yet active. However, the site can be viewed on the CTC & Associates website at...

<http://www.ctcandassociates.com/frozentesthome.htm>

Pat discussed the need for specific information from the states and that they will be providing a template for the states to fill out in order to assist in populating the website.

More on this during Kim's more detailed presentation.

States Report Out:

Wisconsin

Hussain provided an overview of Wisconsin's research, specifically the Wisconsin Highway Research Program (WHRP)...

Overview – WHRP has been in existence since 1998 with an annual budget of \$1 million (approximately \$850K operating and \$150K administration). Research is broken down into four areas – flexible pavements, rigid pavements, geotechnical and structures.

TOCs – Membership made up of WisDOT, including chair, FHWA, industry, consultants and academia. Approximately 10 per TOC. The “engine” of the WHRP. Responsible for generating RFPs, selecting contractors and monitoring the technical progress of the research.

Steering Committee – The decision-making body of the WHRP with business at the programmatic and policy level, which includes funding decisions. Membership is made up of WisDOT managers, industry, consultants, and academia.

Research – Approximately 30 active projects and 35 completed over the life of the program. Research on the website is project-focused. In other words, there is a page for each project that contains vital project info, quarterly reports, other interim reports or documentation if pertinent and the final report if completed.

Minnesota

MnROAD is operated by MnDOT but the research to be done there in the future is done in cooperation with TERRA (Transportation Engineering and Road Research Alliance).

Originally constructed in '91 to '93. Reconstructing 28 sections in 2007. Requires \$5 million in funding (80% federal, 10% MnDOT, 10% industry partners). Board members include MnDOT, industry, FHWA, academia and Norwegian Public Roads Administration.

MnDOT research problem statements are generated by MnDOT offices and districts. Proposals in response to problem statements are prioritized by MnDOT offices and final selections are made by MnDOT management. Minnesota counties and cities also generate problem statements and the Local Road Research Board (LRRB) makes final funding decisions on proposals for local issues. Often MnDOT and LRRB will co-fund research.

Pooled Fund Projects [12 pooled fund projects: \$980K from Mn/DOT; \$3.55M from other agencies; \$4.5M total]

- Optimal Timing of Preventative Maintenance for Addressing Environmental Aging in Asphalt Pavements
- Field Study of Modified PG Binders
- Recycled Asphalt Pavements
- Investigation of Low Temperature Cracking in Asphalt Pavements
- HMA Surface Characteristics related to Ride, Texture, Friction, Noise and Durability
- Material Properties and Environmental Effects on HMA and PCC Pavement Performance
- Design and Construction Guidelines for Composite Asphalt on Concrete Pavements
- Effects of Implements of Husbandry on Pavement Performance
- Recycled Unbound Pavement Materials
- Innovative Concrete Joint Design and Construction

- PCC Surface Characteristics – Rehabilitation
- PCC Surface Characteristics – Construction

Proposed pooled fund projects...

- Warm Asphalt Pavements
- Heavy Vehicle Simulator Forensic Study
- Pervious Pavement Design for Northern Climates

Illinois

Not able to take the lead on pooled funds but are able to contribute.

Transportation Center at the Univ. of Illinois

- Accelerated Pavement Center at Grand Tool?
- Illinois Center for Transportation?
- ATREL?

Current Pavement Research in Illinois [3 yr \$8.8M (total) w/ Univ. of Illinois; 25% match; \$1M for internal research]

- Accelerated Pavement Testing of Extended Life CRCP Sections
- Evaluation and Implementation of Improved CRCP and JPCP Design Methods for Illinois
- Validation of Design Concepts for Extended Life HMA Pavements
- Evaluation of Tack Coats and Bond of HMA Overlays to PCC
- Reflective Crack Control Study
- Evaluation of Pavement Damage Due to New Tire Designs

New Initiatives

- Validation of Industry Developed Whitetopping and Ultra-Thin Whitetopping Design Procedures for Use by IDOT
- Characterization of Illinois Aggregate for Subgrade Replacement and Subbase
- HMA Sample Location

New group of projects coming in March 2006.

University of Illinois gets first chance at projects.

Michigan

Research Summit in 2000, which resulted in “Challenge 2000.” From this a five year research plan was drafted in 2003 for FY 2003 to FY 2008 for pavements and materials.

This plan laid out research in six areas...

1. Specifications for Work Acceptance
2. Pavement Design Process
3. Warranty Support
4. Pavement Preservation
5. Pavement Performance
6. Pavement Management

- Contract only with Michigan universities

- Two year program FY 2006 through FY 2007
- In the first year of the current cycle
- FY 2006 total is \$7.4 million (all areas, not just pavement)
- FY 2007 available is \$8.75 million of which about \$6.9 million is allocated
- Call for Research letter is currently being drafted
- Proposed deadline for Research Problem Statements is the end of April 2006
- Pavement and Bridge Committees will review and rank submitted problem statements
- Hope to have FY 2008/FY 2009 program finalized by mid-summer

Bylaws

- See separate document.

Website

The following notes are thoughts, questions and comments that were brought up during Kim's detailed presentation of the Frozen Four website...

- How far back do we go in completed research? – Five years and annually rotating out the oldest year of research.
- Do we want to include links to completed research? – Yes.
- Research expertise – each state will list expertise by topic area beginning with DOT and university researchers and then include consultants.
- What kind of subtopics, if any, do we need to include on the web site? – We will start with TRB's committee areas.
- With regards to a table, perhaps use an excel file that can be downloaded onto a desktop and manipulated from there.
- Will upload research onto site and supply at next meeting for comment.
- Proposed research will be renamed "problem statements" and will be broken out into "considered" and "approved."
- Emails will go out to member states to inform them of updates to the site.
- Dates to indicate the funding cycles of problem statements are being considered.
- Will remove short-term research and tech transfer and include tech transfer/implementation under "Implementation Activities."
- March 10th – template for collecting research activities/information from each state gets sent out.
- April 21st – Templates are due back to CTC & Associates.

Next Meeting

Madison, WI

One day – either a Tue., Wed. or Thur., (May 23, 24, or 25)

Voting members only.