

TTCC/NC² Semi-Annual Meeting

March 27 – 29, 2012
Oklahoma City, Oklahoma

Proposal and Discussion of a New PCC Pooled Fund

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1950-2012

PCC Techn

Research, Deployment

Long-Term Plan for Concrete Pavement Research and Technology—The Concrete Pavement Road Map: Volume II, Tracks

SEPTEMBER 2005

FHWA PUBLICATION NUMBER: HRT-05-053



U.S. Department of Transportation
Federal Highway Administration
Research, Development, and Technology
3900 Mark Highway Research Center
Washington, DC 20596

**Research and
Technology Bureau**
DRIVING FORCE OF INNOVATION

www.iowadot.gov/research

Recent

Recent and Current Pooled Fund PCC Research*

*Additional PCC pooled fund research not listed here includes topics such as: concrete bridge decks, PCC sensors, PCC construction equipment

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Identifiers			Lead State	# States in Study
Number	Study End Date	Name		
TPF-5(013)	Complete	Effect of Multiple Freeze-Thaw Versus Deep Frost Penetration on Pavement Performance	FHWA	
TPF-5(066)	Complete	Material and Construction Optimization for Prevention of Premature Pavement Distress in PCC Pavements	IA	14
TPF-5(098)	Final Report Submitted	Self Consolidating Concrete	IA	4 + FHWA
TPF-5(112)	Complete	Midwest States Pooled Fund Pavement Preservation Partnership	MI	11
TPF-5(121)	Research done - working on final data collection and report	Monitoring and Modeling of Pavement Response and Performance	OH	2
TPF-5(136)	Complete	High Speed Pavement Analyzer	IA	Ia + FHWA
TPF-5(137)	Complete	Western Pavement Preservation Partnership	WA	5
TPF-5(165)	5/30/2012	Development of Design Guide for Thin and Ultrathin Concrete Overlays of Existing Asphalt Pavements	MN	6
TPF-5(141)	6/30/2012	Pavement Surface Properties Consortium: A Research Program	VA	6 + FHWA
TPF-5(179)	6/30/2012	Evaluation of Test Methods for Permeability (Transport) and Development of Performance Guidelines for Durability	IN	11
TPF-5(100)	7/25/2012	Slag Cement	IA	5 + FHWA
TPF-5(117)	7/25/2012	Development of Performance Properties of Ternary Mixes	IA	10 + FHWA
TPF-5(135)	12/31/2012	Tire Pavement Noise Research Consortium	WA	8 + FHWA
TPF-5(139)	12/31/2012	PCC Surface Characteristics: Tire-Pavement Noise Program Part 3 - Innovative Solutions / Current Practices	IA	7 + FHWA
TPF-5(205)	6/30/2013	MDA	IA	9
TPF-5(224), follows SPR3(006) led by FHWA	6/30/2013.	Investigation of Jointed Plain Concrete Pavement Deterioration at Joints and the Potential Contribution of Deicing Chemicals	IA	8 + FHWA
TPF-5(229)	8/31/2013	Pavement Drainage Layers	VA	4
TPF-5(183)	3/15/2014	Improving the Foundation Layers of Concrete Pavements	IA	6
TPF-5(197)	4/12/2014	Impact of Wide-Base Tires on Pavement Damage: A National Study	FHWA	7
TPF-5(123)	On-Going	Pavement Preservation Tech Transfer Among Southeast States	NC	8, SE Region
TPF-5(134)	On-Going	PCC Surface Characteristics: Rehabilitation	MN	2 + FHWA

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New PCC Pooled Fund Proposal

Sustainable Concrete Pavement Pooled Fund Research Initiative

Provide a coordinated program for research and technology deployment to address priorities identified by the participating states.

BRIEF OVERVIEW

New PCC Pooled Fund Proposal

- The CP Road Map will be a resource to identify gaps in research
- Participating states will identify new areas of need

New PCC Pooled Fund Proposal

Organization

- Led by Iowa DOT
- Administered by the CP Tech Center
- Board of Directors (BOD): One member from each participating state
- Annual work plans determined by BOD

New PCC Pooled Fund Proposal

Project Identification and Selection

- BOD:
 - establish research and implementation needs, schedule and funding level for individual projects
 - Review RFPs
 - Review proposals
 - Establish TACs
 - Monitor projects and review reports
- BOD voting weighted proportionally to state contribution

New PCC Pooled Fund Proposal

Funding

- Envision projects > \$50,000
- Propose minimum of 10 member states and FHWA
- Contributions of \$25,000 to \$50,000 annually for initially 5 years
- Investigators encouraged to maximize funding by obtaining industry or other match

New PCC Pooled Fund Proposal

Keys to Success

- Open Communication
- Partnerships
 - FHWA
 - Universities
 - Industry

New PCC Pooled Fund Proposal

More Details

Technology Transfer



Annual Work Plan



New PCC Pooled Fund Proposal

What Next?

- April 2012: Solicitation of comments through NCC list-serve
- May 2012: Submit proposal to FHWA

New PCC Pooled
Fund Proposal

**SOLUTIONS
AHEAD**

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