**Previous notice (below) which was sent to AASHTO-RAC on 12-15-16:**

**Good morning everyone.**

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| This notice is being distributed to all of AASHTO RAC to inform DOT professionals about the status and proposed activities for a strongly supported pooled fund study currently under way at Oklahoma State University and Oregon State University (**Improving Specifications to Resist Frost Damage in Modern Concrete Mixtures** **Study Number:** **TPF-5(297)** [**http://www.pooledfund.org/Details/Study/541**](http://www.pooledfund.org/Details/Study/541)**).** Tyler Ley, PhD (OK) and Jason Weiss, PhD (OR) are the Principal Investigators. |

Phase 1 started in May of 2014 and is scheduled to be continued if sufficient funds are committed and transferred by February of 2017. Most participating states and FHWA verbally agreed on a recent conference call that their office would support a two year extension of the study. Two new states expressed an interest in joining the study, so I added them to allow for their commitments to be entered online. I have already changed the end date for the study so that states can post their new commitments for either 2017 and 2018 or for 2018 and 2019. Please contact me if your DOT would like to be added as a new supporter of this continued effort.

Phase 1 suggested that each state commit to $17,500 per year for three years.  16 states and FHWA joined the initial study. A Phase 1 Interim report may be completed if needed to reconcile funds for states not continuing their participation.

Phase 2 (two year extension) proposes he same commitment of $17,500 x 2 years.

I have included the scopes of work below for your convenience.

Thank you for your consideration to participate.

*Moving forward…*

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**Ron F. Curb, P.E., CPM**

**Assistant State Research Engineer**

**TRB State Representative**

**Oklahoma TPF Financial Contact**

**Engineering Manager II**

**(405) 522-3795****rcurb@odot.org**

**Office of Research & Implementation**

**ODOT-spr@odot.org**

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**Oklahoma Department of Transportation
200 N.E. 21st Street, Rm G18
Oklahoma City, OK 73105-3204**

**Visit the Office of Research & Implementation services page at:**

[**https://www.ok.gov/odot/Programs\_and\_Projects/Research\_and\_Implementation/index.html**](https://www.ok.gov/odot/Programs_and_Projects/Research_and_Implementation/index.html)

**Visit the Oklahoma Transportation Library (OTL) Catalog at:**

[**www.ou.edu/oktl**](http://www.ou.edu/oktl)

PROPOSED PHASE 2 TASKS:

* **Continued development of the Super Air Meter (SAM)**

Improve the SAM

Complete precision and bias

Update AASHTO TP 118

* **12 Investigate field practices**

Construction methods

Support states SAM implementation

* **13 Standardize new rapid FT test**

Extension of current method

Develop AASHTO language

Sample exchange

Correlation with performance

* **14 Measuring FT exposure condition**

Create samples and testing

Distribute sensors and samples

Gather data

* **15 Modeling FT exposure conditions**

Extend existing models

Complete lab testing

Summarize and tie to field data

Validate models

* **16 Confirming FT Results**

Simulate field FT exposure

* **Prepare Final Report**

**PHASE 1**

**Scope of Work:**
Task 1: Literature Review and Development of the Testing Matrix
Task 2: Sample Preparation
Task 3: Validation of the Super Air Meter (SAM)
Task 4: Creation of an AASHTO Test Method and Specification for the SAM
Task 5: Use of X-Ray Tomography of Air Voids and Frost Damage
Task 6: ASTM C 666
Task 7: Absorption and Desorption
Task 8: Degree of Saturation and Damage Development
Task 9: Rate of Damage Analysis
Task 10: Technology Transfer
Task 11: Final Report (possible interim report if study is continued for 2 years)

**PHASE 1, FIGURE 2**

