

**For Quarter Ending** June 30, 2008

07/10/2008

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Research Progress Report

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Technical Advisory Committee Names	Telephone No.	E-mail address
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Technical Advisory Committee Names	Telephone No.	E-mail address
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TAC Meeting Dates	TAC Meeting Dates	TAC Meeting Dates	TAC Meeting Dates	TAC Meeting Dates	TAC Meeting Dates
05/17/2007					

Primary Investigator Concerns, Problems, Needs or No-Cost Extension Requests

TAC members



Project Progress to Date and other pertinent information

- Coordinated the schedule, material, equipment, and documentation requirements for two possible field trial sites, Webster City and Ames City bike paths.
- Worked with Ames City on modification of an asphalt paver to accommodate 5" thick pavement for Ames City bike path.
- Designed a mix proportion for the Webster City project using materials obtained from American Concrete, Webster, IA.
- Studied the rheological properties of SF SCC and the sieved mortar using IBB and Brookfield rheometers, respectively.
- Designed/tested two mix proportions (with and without ActiGel, working with NW) for the Ames City project.
- Extended rheological correlations with slump-flow test for concrete from cement paste (NW).

Main emphasis for next quarter:

1. Coordinate and prepare for the field SF SCC applications in summer
2. Finalize the mix designs for the Ames City project: (a) with fiber and (b) with ActiGel clay and for the Webster City project: (a) with WR and fiber.
3. Test the general properties (set time, heat of hydration, and F-T resistance) of concrete for the field SF SCC projects.
4. Continued refinement and validation of correlations between slump-flow test and rheological parameters (NW).

The research team still is finding it difficult to find field sites for SF SCC application.

Subject self consolidating concrete

Keywords SCC