SEMINAR

Engineering smart, stimuli-responsive cementitious composites

ABSTRACT

Concrete materials will respond to their environment. At high temperatures, concrete expands. In a low relative humidity environment, concrete shrinks. Thus, the key is not to create a concrete that will react to different types of stresses; that happens naturally. Rather, the true challenge is to engineer a concrete's response to a stimulus to be one that is desired (aka "smart"), and even better, the concrete's response can be controlled to achieve a targeted outcome. This presentation will present an overview of research conducted on improving the performance of concrete by using a self-adaptive material approach. Topics to be discussed include self-healing materials and set-on-demand materials.

BIO

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Presented by:

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Thursday November 17

Time:
12 - 1 pm CST

Location:
109A Fulton Hall

RE-CAST