



MACK-BLACKWELL TRANSPORTATION CENTER



May 8, 2015

Richard Deschenes has been awarded the ACI BASF Construction Chemicals Student Fellowship stipend in the amount of \$3500.

Richard has been working on MBTC project "Alkali-Silica Reaction (ASR) in Arkansas" under the supervision of W. Micah Hale Ph.D P.E. Alkali-silica reaction (ASR) is a deleterious expansive reaction that occurs in concrete. The Reaction requires three ingredients to develop and expand. Once the expansive pressure exceeds the concrete tensile strength, cracking occurs, allowing additional moisture to enter the concrete. In the past three years four cases of ASR have been diagnosed in Arkansas.