

Kansas State University UTC Student of the Year (2010)



Lisa Beck is a graduate student in Civil Engineering from Leavenworth, KS. Lisa plans to graduate in May 2011 with a Master of Science in Civil Engineering with an emphasis in concrete materials. Lisa's research focuses on two main objectives: demonstrate the affects of incorporation of several different types of recycled materials into concrete mixtures on a concrete structure's resistance to deterioration due to freezing and thawing; and create a model of the effects of these materials on the strength, durability and permeability of concrete mixture that will enable better concrete mixture optimization and promote the utilization of more recycled materials into concrete. Through her work with concrete

materials, Lisa hopes to both improve the durability and lower the cost of building and maintaining concrete structures throughout Kansas. Lisa was selected for this award due to her excellent academic performance, hard-working nature, willingness to help other students learn the processes of batching and testing concrete that their research requires and the leadership she has demonstrated throughout her time at Kansas State University.

Thesis Title: Effect of Supplementary Cementitious Material Ternary Concrete Mixture Blends on the Permeability and Resistance to Deterioration of Concrete Structures Due to Freezing and Thawing.