

CE 890 Graduate Seminar

SPEAKER: Bob Matlock, Distance Learning M.S. student (Advisor Dr. Mustaque Hossain)

TOPIC: “PCC Mix Design for Rosebud Airport, Rosebud, South Dakota”

DATE: March 9, 2011

TIME: 4:00 p.m. (refreshments at 3:45 p.m.)

PLACE: 2144 Fiedler Hall

ABSTRACT

In May 2010, Bob Matlock worked with Knife River Midwest (Contractor) to design a concrete paving mix for a new airport located at the Rosebud Indian Reservation. The airport was planned adjacent to a recently constructed hospital for transporting patients and doctors to and from the reservation. Airport paving included 55,000 square yards of 6 inch PCC concrete. Thiele Geotech laboratory in Omaha, NE designed the concrete mix, including qualifying the aggregates for the mix, proportioning of components, performing strength testing, and recommended production batch proportions. Airport was constructed during summer/fall of 2010 and is currently operating for its intended use.