

*Computer Science & Electrical Engineering Seminar Series*

**The Design and Operations of Diverging Diamond Interchanges – A Case Study in  
Kansas City, MO**

*Craig Cogan, University of Missouri-Kansas City*

**Friday, Oct 17<sup>th</sup>, 2008 in FH 557 at 2:00 pm**

Due to the increase in the number of vehicles on the road, existing traffic facilities are not sufficient to accommodate the dramatic increase in traffic volume during peak hours, especially for the left turn demand on traditional diamond interchanges. One of the solutions to deal with this congestion problem is to replace the traditional diamond interchange with a Diverging Diamond Interchange (DDI) design. The talk will focus on a pioneering study of a series of design and operation topics related to DDI design, particularly with respect to safety and efficiency, followed by a case study of a new DDI design in Kansas City, MO.

**Craig Cogan**

Craig Cogan is currently employed in the transportation industry as an E.I. at HNTB Corporation. Prior to this, he worked in the Missouri Department of Transportation till 2006. Craig received his B.S. in Civil Engineering from UMKC in May of 2006 and is now pursuing a graduate degree in the Civil Engineering Department. He is completing his thesis on the topic of Diverging Diamond Interchanges with Dr. Pei-Wei Lin and is expected to graduate in Fall 2008. The Diverging Diamond Interchange is an emerging interchange concept which Craig was part of implementing at the Missouri Department of Transportation in 2005.

