



# CEAT

## BROWN BAG LUNCH SEMINAR SERIES

The **Center of Excellence for Airport Technology** Brown Bag Lunch Seminars provide an opportunity for CEAT faculty to present topics beyond the funded OMP projects. Everyone is invited to attend. Bring your Brown Bag and enjoy "something a little different" for lunch!

### ***"Environmentally-friendly Recycled Aggregate Concrete for the O'Hare International Airport"***

#### **Professor David Lange**

The OMP has been a strong supporter of "green technology" for the O'Hare International Airport. In the coming months UIUC will be researching OMP conducted trials of recycled concrete aggregate in construction at O'Hare. The site selected for these trials are concrete slabs near operational gates. The UIUC team will install sensors in these concrete slabs to monitor their performance. Professor Lange is conducting this work in conjunction with Professor Jeff Roesler, Dr. Andres Salas and graduate students at UIUC.

David A. Lange holds a B.S. (Valparaiso University 1981) in civil engineering, MBA (Wichita State University 1984), and Ph.D. (Northwestern University 1991) in civil engineering. He has been on the faculty of the department of Civil and Environmental Engineering at the University of Illinois since 1992 and is a Narbey Khachaturian Faculty Scholar. He is the department's Associate Head for Undergraduate Affairs. In addition, he is the Director of CEAT which is funded by the Federal Aviation Administration and the O'Hare Modernization Program. Dr. Lange teaches graduate and undergraduate courses in civil engineering materials, repair of civil structures, systems engineering and engineering economics. Dr. Lange's research interests include behavior of concrete materials in concrete pavement applications, characterization of microstructure of porous materials, early age properties of concrete, and water transport in repair and masonry materials. Dr. Lange is a fellow of the American Concrete Institute and a fellow of the American Ceramic Society. He formerly served as Associate Director of the Center for Advanced Cement Based Materials (ACBM), and remains active in ACBM research activities.



**12:00 pm, Tuesday, July 7, 2009**  
**OMP Conference Room**  
**10510 West Zemke Road, Chicago**