



SUMMER 2007

NEWS

CEAT Summer Interns

The Center hosted six interns to work on CEAT projects for an eight week period this summer. The FAA sponsors the Center's Minority Internship Project in which undergraduate students who are from underrepresented groups majoring in engineering are selected to participate in the summer research program. Each student was paired with a CEAT faculty member and graduate student to mentor him or her for the summer on a research project. [Click here to read more...](#)

Workshop on Moisture & Temperature Modeling in Concrete Pavements

On July 9-10, 2007, CEAT hosted a technical workshop on measuring and modeling moisture and temperature in pavements at the University of Illinois at Urbana-Champaign. The workshop format was designed to encourage active discussion with short presentations and conversation among experts. [Click here to read more...](#)

Airfield Projects in Japan

CEAT Director David Lange visited airfield pavement projects in Japan in mid-September 2007 as a guest of Prof. Ryoichi Sato from Hiroshima University and Dr. Kazuo Yamada of Taiheiyo Cement Corporation, the largest cement producer in Japan. [Click here to read more...](#)

GAMES Camp

On August 8-10, 2007, CEAT hosted a session for the Girls' Adventures in Mathematics, Engineering, and Science (GAMES) Summer Camp in Newmark Lab at the University of Illinois at Urbana-Champaign. CEAT hosts a classroom session on Civil Engineering and the *Affects of Water on Materials*. Graduate Students Yi Shi, Chang Joon and Jacob Hensheun and Prof. Lange taught the session. [Click here to read more...](#)

RESEARCH BRIEFS

ORD Research Survey Plan

CEAT Faculty, Graduate Students and OMP Engineers conducted a pavement evaluation survey at ORD on the evening of Wednesday, July 13, 2007, at the Airport Maintenance Complex (AMC). The survey was conducted in support of the OMP Research Project on *Pavement Grooving and Reflective Cracking of Asphalt Overlays*. The research survey is intended to provide additional information about the mechanisms of groove deterioration and reflective cracking in hot-mix asphalt overlays on ORD runways and taxiways subjected to heavy aircraft. [Click here to read more...](#)

Tech Note 35 – Ground Granulated Blast Furnace Slag

The new Tech Note is by V. Cervantes and J. Roesler. [Click here to learn more...](#)

The complete list of CEAT Tech Notes can be found on the CEAT web site (<http://ceat.uiuc.edu>) under the Publications section, password-ceat.

OUTREACH AND TECHNOLOGY TRANSFER

College of Engineering ICE Program visit to CEAT

June 29, 2007

The College of Engineering sponsors the program – Illinois Connections in Engineering (ICE) during the summer session for incoming freshman at UIUC. The program was designed to give students the opportunity to begin preparing early for the academic year. CEAT hosted one of the activities for this group. [Click here read more...](#)

Brown Bag Lunch Seminar Series at OMP

September 13, 2007

Jeff Brawn presented, ["The Ecology of Birds in the Chicago Region: where we want them and where we don't"](#).

Professor Brawn is a faculty member in the Department of NRES. He is a Co-PI for the CEAT project, "Airport Wildlife Safety Management" sponsored by the OMP.

July 19, 2007

John Popovics presented, "[Sensing Systems for Concrete Pavements and Structures](#)".

Professor Popovics is a faculty member in the Department of CEE at UIUC. He is a PI for the CEAT project, "Non-Destructive Evaluation and Preparation for the Field Validation of Constructed Pavement Layers at O'Hare" sponsored by the OMP.

June 19, 2007

David Lange presented, "[Do Concrete Materials Specifications Address Real Performance?](#)"

Professor Lange is a faculty member in the Department of CEE at UIUC and Director of CEAT. He is a PI for the CEAT project, "Enhancements of ICON Software: Environmental Condition Modeling and Design Implementation" sponsored by the FAA.

CONFERENCES AND EVENTS

ACI 2007

October 14-18, 2007

Fajardo, Puerto Rico

American Concrete Association Fall 2007 Convention, <http://www.concrete.org/Convention/Fall-Convention/Front.asp>

AWARDS AND HONORS

Li Ai

Completed M.S.

Graduate Student Li Ai completed his M.S. in August of 2007. He is employed at Joseph A. Cesar and Associates, Inc.

Ben Birch

Completed M.S. Thesis

Graduate Student Benjamin Birch completed his M.S. Thesis in September of 2007. He is working at CH2MHill in Chicago, IL as a Staff Engineer for the OMP Expansion Project.

Matt D'Ambrosia

Completed Ph.D.

Doctorial Student Matthew D'Ambrosia defended his PhD Thesis in August of 2007. He is working at the CTL Group in Skokie, IL.

Lin Shen

Completed Ph.D.

Doctorial Student Lin Shen defended his PhD Thesis in June of 2007. He is a Senior Engineer with Kal Krishnan Consulting Services, Inc., Oakland, CA.

CONTACT INFO

Thanks for reading our quarterly e-newsletter. For more information about the Center of Excellence for Airport Technology at the University of Illinois, visit <http://ceat.cee.uiuc.edu/>. The Director of CEAT is Prof David Lange: dlange@uiuc.edu. For questions or comments, send email to Vicki Dixon: vdixon@uiuc.edu.