CEAT/FAA Outreach Program

David Lange
Department of Civil and Environmental Engineering
University of Illinois at Urbana-Champaign

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CEAT Outreach Mission

Our mission statement expresses how our work delivers value to government and industry, students, and the public:

**Mission Statement**

The mission of the Center of Excellence for Airport Technology at the University of Illinois at Urbana-Champaign is to develop new scientific knowledge and technology for the development, maintenance and operation of airports by conducting research in cooperation with government, industry and the private sector, enriching the engineering community through technology transfer, serving a diverse student population through educational programs, and educating the public to appreciate its investment in airport infrastructure.
Summer 2007 Internship Program

- Worked on FAA and OMP Research Projects at Newmark Lab and ATREL
- Led by CEAT Faculty and Graduate Student Mentors
- Wrote Summary Paper on Research Experience at end of the summer internship
Summer 2007 Internship Program

- Ahmed Ahmed (right top)
  - Sophomore in CEE at UIUC
  - CEAT Minority Internship Program

- Christian Cortez (right bottom)
  - Junior in Aerospace Engineering at UIUC
  - CEAT Minority Internship Program
Summer 2007 Internship Program

- **Amruta Mate** (right top)
  - Senior in Civil Engineering at UIUC
  - CEAT Minority Internship Program
- **Loaiza Maldonado-Mateo** (right bottom)
  - Masters Student at the Polytechnic University of Puerto Rico
  - CEAT Minority Internship Program
Summer 2007 Internship Program

- Jose Sanchez (right top)
  - Senior in Civil Engineering at University of Puerto Rico at Mayaguez
  - Summer Research Opportunity Program (SROP)
- Janice Wiener (right bottom)
  - Senior in Civil Engineering Structures in General Engineering Program at UIUC
  - CEAT Minority Internship Program
Long Term Impact

- **Alex Apeagyei** (right)
  - Currently a Post Doc at UIUC
  - Awarded a CEE Teaching Fellowship in Spring 2006 (CEE 407 Airport Design)
  - Completed Graduate and PhD at UIUC 2005
  - 2001 HBCU Summer Intern with CEAT from North Carolina A&T State University
  - 1st Student from CEAT’s FAA Minority Internship Program to complete PhD through the Research of the Center
Transferring Technology within the Profession

- 35 Technotes available on CEAT Website
- Tech Transfer Workshop Program
  - Airport Pavement Instrumentation and Analysis at UIUC on May 17, 2005
  - Asphalt & Concrete Fracture Workshop on July 17, 2007
- Safety Expo at O’Hare Airport
- Seminars for Guest Speakers at UIUC
Fostering Positive Attitudes About Engineering (High School Level)

- Science & Engineering Discovery Program visit to Chicago area High Schools
- Mc4West Project – Latino Students interested in Engineering Majors
- CoE Open House at Newmark Lab
CEAT participation with Mc4West High School Construction Institute

- High School Students from City of Chicago Schools visited UIUC (June 2007)
- CEAT hosted hands-on activities on “Water Physics” and other Materials
- CEAT PhD and MS Students led demos and answered questions
Fostering Positive Attitudes about Engineering (Middle School Level)

- CEAT hosted sessions on civil engineering concepts
- GAMES – College of Engineering middle school summer camp for girls (August 2007)
- Mc4West Middle School students visit CEAT
FAA DOT 2007 Student of the Year Award

- Andrew Braham is a Ph.D. student at the UIUC CEE Dept
- He is working under the supervision of Prof Buttlar on the CEAT project - *Development of New Methodologies for Mechanistic Design of Asphalt Overlays* - sponsored by the FAA
- Andrew completed his B.S. and Master’s in Civil Engineering at the University of Wisconsin in 2000 and 2002
- Prof Buttlar is also his advisor for the Ph.D. work which he is expected to defend at UIUC in 2009