



The **Center of Excellence for Airport Technology** is sponsoring this seminar. We would like to invite professors and their students to attend the lecture. Prof. Delvasto has connections to UIUC. Prof. Delvasto and Prof. Lange have known each other for more than 10 years, and Dr. Andres Salas was advised by Prof. Delvasto during his PhD program.

## ***"Properties of Fique Fiber Reinforced Self Compacting Concrete"***

***Professor Silvio Delvasto***  
***Universidad del Valle – Cali, Colombia***

Prof. Delvasto will speak about fique fibers that are common natural fibers grown in Colombia that have potential in concrete materials.

Abstract: In this presentation are presented the results of an experimental study about the effect of embedding treated fique fiber into a Self-Compacting Concrete matrix. The tried lengths of the fiber were 10 and 20 mm. The fiber was previously treated with Lime and Sodium Silicate. The main conclusions were: It is possible the obtention of SCC with available materials. The treatment of the fiber improves the behavior of SCC reinforced with it. Wetting-Drying Cycles caused reduction of compressive strength for all the SCC. However, a small addition (0.5%) of treated fique fiber of higher length (20 mm) reduces the loss of strength.

***Friday, May 14, 2010***  
***3:00 – 4:00 PM***  
***Room 1518 Hydro Laboratory.***