

9th in the World Among Our Peers

According to the HEEACT Performance Ranking of Scientific Papers for World Universities, the Department of Civil Engineering at the University of Toronto ranks number 9 in the World among other comparable Civil Engineering Departments.

We are the 1st of 6 Canadian institutions listed in the top 100.

The HEEACT rankings form a highly respected index of institutions based on the number of publications in top journals and academic citations related to research undertaken in this Department.

This puts us among other world leaders like UC-Berkeley, Imperial College, and Delft University of Technology.

Congratulations to everyone on a job well done!

Welcome Prof. Karl Peterson

Karl W. Peterson joins us from Michigan Technological University where he was an assistant research professor.

Karl has a BSc in Geology and MSc and PhD (2008) in Civil Engineering.

His main research interests are the assessment of concrete durability and visualization techniques for microstructural characterization of materials.

The position held by Karl was created as a result of Prof. Doug Hooton's NSERC Industrial Research Chair in Concrete Durability and Sustainability.

Prof. Doug Hooton's Research Saves Ontario Government \$72 Million

University of Toronto alkali-silica reaction research project led by Professor Doug Hooton, who holds the Industrial Research Chair in Concrete Durability and Sustainability at U of T, correlated short-term laboratory tests with long-term performance to predict concrete behaviour, which improved understanding of detrimental chemical processes in concrete.

This new information was subsequently incorporated into Ontario Ministry of Transportation (MTO) specifications to improve the quality and extend the life of concrete.

With a research investment of \$29,000, MTO calculates implementation of the changed concrete standards that can add one extra year of bridge life before rehabilitation or replacement occurs—at a savings of \$40,000 per structure—for an overall savings of \$72 million over the life of the ministry's 1,800 concrete bridges.

MTO included this research news in the Fall 2010 issue of its transportation technology digest, RoadTalk.



Prof. Karl Peterson.

Prof. Eric Miller and Two Alumni Win Charley V. Wootan Award

The U.S. Transportation Research Board has awarded Professor Eric Miller, Director of the Cities Centre, and Civil Engineering Graduate Alumni Jiang Yang Hao and Marianne Hatzopoulou, for the best paper presented at the January 2010 Annual Meeting in the area of transportation policy and organization.

The award will be presented at the 2011 Annual Meeting this January. The paper, "Integrating an Activity-Based Travel Demand Model with Dynamic Traffic Assignment and Emission Models: Implementation in the Greater Toronto Area," constituted much of Jiang's MSc thesis, and Marianne helped supervise the work in her position as a Post-Doctoral Fellow.