CSI Seminar
Thursday 8th November 2012
12:30-1:30 pm

Seminar Plan:

12:30-12:40: Light lunch and drinks

12:40-12:45: Welcome, Introduction

12:45-1:00: Prof Jay Sanjayan (Director, CSI)

Title: The Lure of Portland-Cement-Free Concrete: The Future Research Needs
Abstract: Research in sustainable alternatives to Portland cements is increasingly becoming an attractive research field worldwide. What is the enticement to work in this area? After more than a decade of intensive research work, is there still more work to do? What research needs are there to be fulfilled in the future so that the use of these alternative cements/concretes can enter the market place without hurdles? The presentation will attempt to answer these questions.

1:00-1:15: Alireza Mohammadinia (PhD candidate)

Title: Effect of Geopolymer Cement Stabilisation on Fatigue Life of Pavement Sub-Bases with Recycled Demolition Aggregates
Abstract: Demolition materials are generated by demolition activities and account for a major proportion of the waste materials present in landfills. Laboratory testing results indicated that medium and fine sized recycled glass sources exhibit geotechnical behaviour similar to natural aggregates. An experimental and numerical study on the characterization of lightly stabilized granular sub-base and base materials is being conducted.

1:15-1:30: Savalan Pour Akbarkhiavi (PhD candidate)

Title: Defining a New Factor in Water Distribution Systems (WDS)
Abstract: How to measure the level of service of a Water Distribution System (WDS) from its pressures point of view? Presently with the defined factors and tools which we have access to in WDS, we are not able to rate a water network from its pressures point of view. In this research a new factor called Pressure Index (PI) is defined. Taking PI factor under observation before and after a WDS augmentation will show the improvement of that WDS pressures.

Venue: Swinburne University of Technology, Hawthorn Campus, ATC Building (corner of Burwood Road and John St, Hawthorn), ATC 205, 2nd floor
Contact: Miranda Beale (email: mbeale@swin.edu.au – phone: 9214 8455)