CSI Seminar
Thursday 10th May 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: Dr Mahdi M Disfani (Lecturer)

Title: Environmental risks of using recycled crushed glass in road applications

Abstract: Insufficient knowledge on the geotechnical characteristics of recycled glass and its environmental risks are the primary barriers in its application in road works. A comprehensive series of chemical and environmental tests were carried out and results were compared with environmental protection authorities’ requirements. Results indicated that no leaching hazard will be experienced during the service life of recycled glass in road work applications. Other possible environmental risks along with health and safety precautions and management suggestions are discussed.

1:00-1:15: Prageeth H. Gunarathna (PhD candidate)

Title: Performance measures for a sustainable road transport asset management

Abstract: Emerging climate change, resource shortages, financial limitations and a dramatic increase in energy costs are creating a growing need for sustainable asset management practice within the road transport industry. The aim of this study is to integrate the sustainability concept with road asset management framework by developing performance indicators and suitable measures to assess and monitor sustainability performance of road transport asset management. These measures will ensure that asset management practice is sustainable in every aspect and that risks are well managed in every phase of the road asset management cycle.

1:15-1:30: Masoud Dehghan (PhD candidate)

Title: Modifying the epoxy adhesive used in CFRP-strengthening systems applied on civil structures

Abstract: In strengthening system of the civil structures using carbon fibre reinforced polymer (CFRP), the adhesive used is the key element as it is extremely sensitive to the operating temperature. To have a high performance system, the adhesive needs to be structurally modified by using some additives or optimizing its fabrication method.

Venue: Swinburne University of Technology, Hawthorn Campus, ATC Building (corner of Burwood Road and John St, Hawthorn), ATC 205, 2nd floor

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