The Centre for Sustainable Infrastructure seminar will be held on Thursday 12 March 2015. All Civil and Construction Group students are expected to attend as part of their course requirements and all CSI staff and students are encouraged to attend.

CSI Research Seminar

Date: Thursday 12 March

Time: 12.30 – 1.30pm

Location: ATC 205, level 2, Advanced Technology Centre
Swinburne University of Technology, Hawthorn campus

A light lunch will be provided

Performance Assessment of Residential Slabs on Reactive Soils

Dr Mohammad Fardipour (Research Fellow, CSI)

This presentation covers recent progress and challenges in finite element modelling and non-linear response analyses (using OpenSees FE program) of residential slabs interacting with reactive soils. One of the main objectives of modelling is to gain a comprehensive insight of the parameters/process involved in the recently observed cases of slab failure aiming at evaluating the relevant provisions of Australian Standard AS2870, which might be responsible for inadequate designs and damages.

A Framework for Unsaturated Behaviour of Recycled Aggregates in Pavement Applications

Ehsan Yaghoubi (Full-time PhD Candidate – commenced September 2013)

A research program is proposed to investigate the behaviour of unsaturated unbound recycled materials in pavement applications. Accordingly, Soil Water Characteristic Curve (SWCC) of the selected materials will be determined. Further, a testing system will be developed to investigate the volumetric behaviour of these materials within a water content-based framework. This framework is expected to solve the complexities involved in using the existing suction-based frameworks, in order to generate a predictive behaviour model for road pavements.
We look forward to seeing you there.

Yours sincerely,

Prof Jay Sanjayan
Director, Centre for Sustainable Infrastructure
Swinburne University of Technology

swinburne.edu.au/csi/seminars/

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