CSI Seminar
Thursday 13th December 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 Siva Sivagnanasundram (Research Fellow, CSI)

Title: In-plan Seismic performance of point fixed glass façade system
Abstract: The point fixed glass façade system (PFGFS), also known as a spider glass system, is popular as it is the most transparent façade systems available for buildings. The façade system will be vulnerable to racking actions mainly during severe earthquakes and wind actions if the system does not have sufficient in-plane drift capacity. Unique real scale in-plane racking laboratory tests on typical PFGFS were conducted to assess the in-plane racking performance. In this presentation, the laboratory test setup and the experimental results are discussed together with the confirmatory FE analysis results.

1:00-1:15: Mohammad Haider (PhD candidate – commenced Nov 2009)

Title: Failure behaviour of geopolymer cement as wellbore seal in geosequestration of CO₂
Abstract: The study identifies possible mechanisms of failures of geopolymer as wellbore annulus cement. The failure behaviour of geopolymer cement has been simulated in terms of three distinct modes of failures, namely, failure by radial crack propagation, debonding and crushing. Apart from laboratory scale testing, field scale model is simulated by using numerical modelling technique.

1:15-1:30: Ayesha Saib (Masters candidate – commenced April 2012)

Title: Establishing Relationship of Maximum Water Demand with Peak Demand Factors in Melbourne Suburbs
Abstract: Investigation into factors that affect the peak water demand factor. Whether we adopt traditional methods of designing a water distribution system, using the peak demand or not. Is the peak demand factor still required? Presentation will address issues surrounding the Peak water demand factor and questions that require further investigation.

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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