CSI Research Seminar Program

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

12:40 - 12:45pm
Welcome and Introduction

12:45 - 1:00pm
Dr Clint Steele
Title: Industrial cooperation and connection in EV projects
Abstract: When researching into industrial applications there are two issues. One is partnering with a suitable company so that an interesting project is had. The other is understanding what the nature of the research element is; sometimes the development and design elements seems to become dominant, and the research element is no longer clear. This presentation covers three case studies interacting with external organisations and the research projects made from them.

1:00 - 1:15pm
Himani Mazumder (PhD candidate – September 2010)
Title: Design optimization of retrofitted EV based on dynamic analysis
Abstract: Technology, economic context, and environmental issues are all now aligning to create a more commercial backdrop for EVs which creates the focus on retrofitting due to quick time to market, sustainability and cost-effectiveness. This study concentrates on optimizing vehicle architecture based on an evaluation of specifications, propulsion technologies and the handling characteristics of a retrofitted EV. An analysis has been conducted on a model vehicle considering retrofitted vehicle parameters for different load cases.

1:15 - 1:30pm
Saeed Yousefdoost (PhD Candidate – commenced June 2010)
Title: Evaluation of Dynamic Modulus Predictive Models for Typical Australian Asphalt Mixes
Abstract: Dynamic modulus is a fundamental property of asphalt mixes and is required as material input in most mechanistic-empirical pavement design systems. A number of models have been developed to predict dynamic modulus of asphalt materials from various intrinsic characteristics of the mix. However, there is concern about whether these models are appropriate for Australian asphalt mixes. In this study, dynamic moduli of standard Australian asphalt mixes were tested and the accuracy of the nominated predictive models was evaluated.

For more information
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