

**Faculty of Built Environment and Engineering  
and  
Faculty of Business  
Airport Metropolis Research Project Team**

*Invite you to attend a seminar  
presented by*

**Dr. Andre Dantas**

**Seminar Topic:  
RECATS (Risk of Energy Constraint Activity  
Transportation Systems)**

**Date: 15 April 2008**

**Time: 11:00 a.m. to 12:00 p.m.**

**Venue: S Block, Owen J Wordsworth, Level 12, Gardens Point  
Campus**

**ABSTRACT**

Dr. Andre Dantas will review the position with respect to New Zealand's access to liquid transport fuels over the next 25 years. He will briefly describe a novel analysis, which allows conversion of supply and demand data into shortfall probability distributions. Dr Dantas will introduce a long-term planning tool called RECATS (Risk of Energy Constraint Activity Transportation Systems) which calculates a risk factor at a queried year in the future for a given urban form and travel demand configuration. RECATS analysis was applied to the four future development models used in the consultation process for the Greater Christchurch Urban Development Strategy. Results show that urban sprawl development, mainly based on car travel would make urban communities extremely vulnerable to any change in fuel availability. On the other hand, centralized and/or hub based development options mainly based on public transport and non-motorized travel modes would significantly contribute to reduce the future impact to activities.

**Speaker CV**

Dr André Dantas (BE) (MSc) (PhD) is a Senior Lecturer in Transportation Engineering in the Department of Civil Engineering Department, University of Canterbury. In 2002, André received his PhD from the Nagoya Institute of Technology, Nagoya, Japan. Prior to that André was a GIS instructor at the University of Brasilia and a traffic engineer and transportation planner in different parts of Brazil. He also has a Bachelor in Civil Engineering. André is currently conducting research on Energy Constrained Transportation Systems and Logistics of Disasters. André has published over 70 papers in International Journals and Conference proceedings. In 2001, André was awarded the Yasoshima's Prize for Best Paper in the 4th Eastern Asia Society for Transportation Studies (EASTS) Conference, Hanoi, Vietnam.

Morning Tea will be served in the Owen J Wordsworth room from 10.30am

**For catering purposes please *RSVP by 12 noon Monday 14 April 2008 to:***

*Anne Krupa*

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