



**Australian Geomechanics Society**

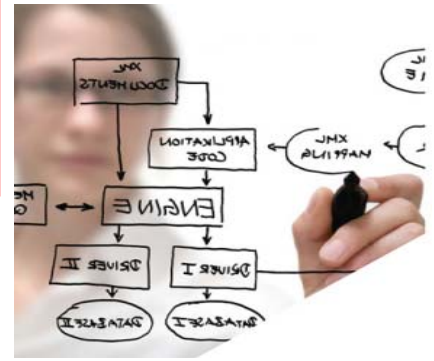
*Sydney Chapter*

Auditorium: Ground Floor, 8 Thomas Street, Chatswood

**TECHNICAL PRESENTATION**

Wednesday 9<sup>th</sup> June 2010

Light refreshments at 5.30 PM prior to 6.00 PM meeting



# Ipswich Motorway Upgrade, Dinmore to Goodna: Remediation of Abandoned Coalmines

**Speakers: Barry Land\* & Bill Holz\*\***

## SYNOPSIS

At \$2bn the Ipswich Motorway, D2G Upgrade southwest of Brisbane is the largest federally funded project in QLD. The 8km section of road, Queensland's busiest, crosses three abandoned coal mines worked at various times between the late 1800's and the 1980's.

Following investigation and analysis of the stability of each of the mines the decision was taken to fill them to ensure long term stability and safety for the road using public, the works being carried out on a sub-alliance basis to the main alliance. Each mine provided differing scenarios of geometry, depth, documentation and groundwater/methane filled mine void. Remediation procedures were developed and implemented for each mine. The D2G project is the largest abandoned mine infilling project to have taken place in Australia and provided a number of challenges and innovative solutions, including:

- Investigation of non-documented mine workings
- Stability analysis and assessment
- Groundwater Management
- Methane Management
- Target drilling
- Mapping through the use of down hole cameras.
- Sub-alliance delivery to provide value for money

\* Barry Land is the Origin Alliance Geotechnical Manager, responsible for the investigation, stability analysis and remediation design.

\*\* Bill Holz is the Origin Sub-Alliance Manager responsible for the safe, on time delivery of the mine remediation works.

*Attendance may be credited (1 point) towards Continuing Professional Development requirements. Members are responsible for recording CPD for audit purposes.*

Booking is not required.

For further information contact Mark Adams (mark.adams@arup.com.au)



**ENGINEERS  
AUSTRALIA**  
Sydney Division