

Presents:

Tuesday 20 April 2010

Time: 5:30pm for 6:00pm start

Venue:

Hawken Auditorium
Engineering House
447 Upper Edward St
Brisbane

Cost:

Members \$15
Non Members \$20
Students \$10

Please register to assist catering

Speaker:

**Dr. Mike Clarke, CPEng, FIEAust, FAusIMM,
RPEQ**

Mike Clarke has qualifications in mining, chemical and environmental engineering. Mike is a consulting engineer and has been an academic and project developer. Part of his consulting practice has been involved in designing fuel substitution systems for power stations and the utilisation of poor quality coal. Mike is a fellow of the Institution of Engineers Australia, fellow of the Australasian Institute of Mining and Metallurgy, a member of the Waste Management Association of Australia and a member of the Australian Nuclear Association - Queensland.

Mike is the CEO of M.E.T.T.S. Pty Ltd an engineering consultancy that specialises in infrastructure development and resource management.

Mike is presently consulting to Central Petroleum Ltd regarding future fuel gas development from the Company's extensive coal resource and on the recovery and monetisation of the Company's helium prospects. Other recent consulting has included, fine coal rejects recovery in central Queensland (BMA, Brisbane), the design of efficient desalination plant for brackish water from CSM extraction (TSI-Asia Ltd, Bangkok) and the development of a lignite deposit in Pakistan (Asian Development Bank, Manila).

Ventilation Air Methane (VAM)

Fuel or Environmental Hazard?

Ventilated Air Methane (VAM) is methane released during coal mining that as a fugitive emission finds its way into the mine exhaust air. Its concentration varies with the gas content of the coal being mined, the rate of mining and the ventilation airflow rate. It commonly occurs in concentrations ranging from 0.1 – 1.0 % v/v.

VAM production from underground coal mining is looked upon as a major source of greenhouse gas. Under the UNFCCC methodologies its destruction can earn carbon credits.

VAM can be captured and made inert by oxidation or it can also be a useful subsidiary fuel for power generation.

In this talk, methods of VAM destruction will be discussed as will its use in power generation.

Drinks and Networking

Please join us for a few drinks and light supper after the presentation.

The presentation will count as one hour towards your CPD.

Visit the Engineers Australia Qld website at:

<http://qld.engineersaustralia.org.au/jetspeed/>



Yes, I will be attending the **Ventilation Air Methane** session on **20 April 2010**

For catering purposes please register by 12pm on Friday 16 April

To register:

(Event Code - **LA20100420**)

- Email a completed form to Queensland Division at qld@engineersaustralia.org.au
- Fax your registration to (07) 3832 2101
- Phone (07) 3832 3749

Name (s) _____

Company _____

Address _____

Telephone _____

E-mail _____

___ Members x \$15.00 (Inc GST) \$ _____ (SSEE or Engineers Australia)
___ Non-members x \$20.00 (Inc GST) \$ _____
___ Students x \$10.00 (Inc GST) \$ _____ (Fulltime or undergraduate)

Please register me and I will pay on the night

Payment by cheque:

Please make cheques payable to the Institution of Engineers, Queensland Division

Payment by credit card:

Bankcard MasterCard Visa Diners Amex

Amount \$ _____

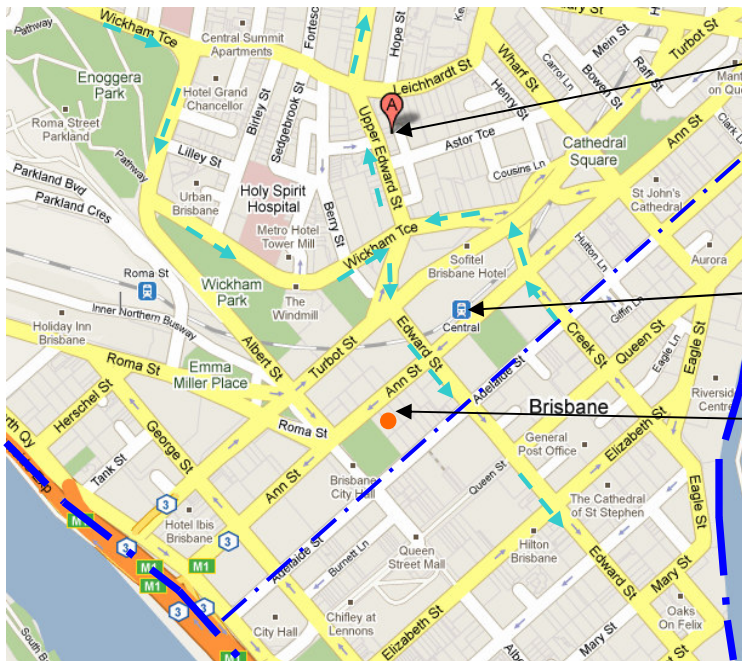
Card number _____

Expiry date _____ Signature _____

Cardholder's name _____

Once completed this form is a valid tax invoice. ABN 54 586 415 692

SSEE encourages you to choose sustainable transport.



Engineering House
447 Upper Edward St

Spring Hill Loop bus
every 10 minutes until 6pm

Central Train Station

Citycat

Transport Information Centre

Pedestrian - Cycle way

For more information go to <http://www.translink.com.au/> or visit the **Transport Information Centre** at King George Square station, Ann Street Concourse.

