

Revised 15 September 2006

**Annotated Workshop Agenda:
CMM Development in the Asia-Pacific Region: Perspectives and Potential**

**Presented under the auspices of the Methane to Markets Partnership
And the Asia-Pacific Partnership on Clean Development and Climate**

**Brisbane, Australia 4-5 October 2006
Sponsored by Australia, Japan, and USA**

Workshop Goals

- *The workshop will address opportunities and impediments to coal mine methane project development by focusing on case studies and experiences in Australia, the US, and internationally.*

DAY 1: WEDNESDAY 4 OCTOBER 2006

8:00 – 8:30 – Registration / coffee and tea

8:30 AM Welcome Address: The Role of Coal Mine Methane Abatement in Global Greenhouse Gas Emission Mitigation

Confirmed speaker: Honorable Bob Baldwin, Parliamentary Secretary to the Minister for Industry, Tourism and Resources

Introduced by John Karas, Australia Department of Industry, Tourism, and Resources (DITR)

9:00 AM Opening Remarks: Methane to Markets and the Asia Pacific Partnership - Integrating and Leveraging Coal Mine Methane Development Opportunities

- *John Karas, Australia Department of Industry, Tourism, and Resources*
- *Pamela Franklin, US Environmental Protection Agency (US EPA)*
- *Hideo Shindo, Japan New Energy and Industrial Technology Development Organization (NEDO)*

Session 1: Coal Mine Methane Upstream: Gas Capture and Gas Processing

Session provides updates on advanced / state of the art technologies for gas drainage, including advanced (pre-mine) surface drainage, directional drilling, etc., featuring drilling companies from Australia and USA

Session moderator: Damian Dwyer, Australian Petroleum Production & Exploration Association

9:30 AM **Confirmed speakers:** Steve Johnson and Hilmar von Shoenfeld, CDX (USA)
Topic (notional): Directional drilling systems and experience

10:00 AM **Confirmed speaker:** Jim McGowen, Halliburton (AUS)

10:30 – 10:45 Morning Break

10:45 AM **Confirmed speakers:** Frank Hungerford, Valley Longwall (AUS)

China Topic (notional): In-Seam Drilling Technology Issues and Experience in

11:15 AM Confirmed Speaker: Nathan Mitchell, Mitchell Drilling (AUS)
Talk subject: State of the Art in in-Seam Directional Drilling

11:45 PM Confirmed speaker: Greg Hall, BCCK (USA)
Talk subject: Gas processing systems: Nitech – Nitrogen removal technology

12:15 – 1.30 PM Lunch

1:30 PM Buses to depart hotel for QCAT facility

Session 2: Emerging Technologies - CMM Emission Abatement Research and Development at CSIRO

Session to be held at the Queensland Centre of Advanced Technology and will include a survey of coal mine methane technology development at CSIRO and status / availability:

- Methane Concentrator
- Catalytic Lean-burn Gas Turbine
- Hybrid Waste Coal/Methane Combustor
- Catalytic Monolith Reactor

Session moderator: Greg Rowan

5:00 PM Buses to depart QCAT to return to hotel

*6:30 – 8:00 PM Evening reception, Queen Elizabeth Room, Marriott Hotel,
Sponsored by Australia DITR*

DAY 2: THURSDAY, 5 OCTOBER 2006

Session 3: An Integrated Approach to CMM Gas Drainage and Mine Operations (Case Studies)

This session will focus on how methane gas drainage systems are used to complement coal mining operations, with case studies of integrated operations from the US and Germany.

Session moderator: Cassandra McCarthy, Australian Coal Association

8:30 AM **Confirmed speaker:** Mike Onifer, Vice President, CNX Gas (USA)
Topic (notional): Case study - Integrated gas collection operations at US coal mine

9:00 AM **Confirmed speaker:** John Zachwieja, Vice President, CONSOL Energy (USA)
Topic (notional): Case study - Integrated gas collection operations at US coal mine

9:30 AM **Invited speaker:** Charles Willis, Black Warrior Methane
Topic: Case study – Integrated gas collection operations at a US Coal Mine

10:00 – 10.30 AM Morning break

10:30 AM **Confirmed speaker:** Ralph Schleuter, DMT (Germany)
Topic: Case study: CBM and CMM experience in Germany

11:00 AM **Confirmed speaker:** Liu Wenge, China Coal Information Institute
Topic: Coal Mine Methane Projects in China

11:30 AM **Invited speaker:** Mr. Peter Lau, Manager, Asia Pacific Power Systems, Caterpillar, Inc. (Singapore)
Topic (notional): Case study of CMM project in China

12:00 NOON **Confirmed speaker:** Jim Sandford, Xstrata Coal (AUS)
Topic: Methane capture project at Bulga Mine

12: 30 – 1:30 PM Lunch sponsored by MEGTEC Systems

Session 4: International Coal Mine Methane Projects and Ventilation Air Methane Recovery

Session moderator: Jeremy Barlow, Barlow Jonker Pty Ltd.

1:30 PM **Confirmed speaker:** Richard Mattus, MEGTEC Systems (Sweden)
Topic: Ventilation Air Methane Power Plant Startup (WestVAMP)

2:00 PM **Confirmed speaker:** Nicolas Duplessis, Biothermica (Canada)
Topic (notional): Innovative technology for utilizing ventilation air methane

2:30 PM **Confirmed speaker:** Trevor Stay, Anglo Coal (AUS)
Topic (notional): Grasstree Project

3:00 PM **Confirmed speaker:** Dave Matthew CH4 (AUS)

Topic (notional): Moranbah Gas Project

3:30 PM **Confirmed speaker:** David Eccleston, Clarke Energy
Topic: Case study - CMM power generation project in Australia

4:00 – 4:15 PM Afternoon Break

Session 5: Regulatory Issues and Finance for CMM/VAM Project Development

This session will present options for coal mine methane project financing including carbon financing.

4:15PM **Confirmed Speaker:** Malcolm Cremer, Queensland Department of Natural Resources, Mines & Water
Topic (notional): Regulatory issues

4:45 PM **Confirmed Speaker:** Kentaro Yabe, World Bank
Topic (notional): Financing coal mine methane projects

5:15 PM **Confirmed speaker:** Marc Stuart, EcoSecurities (USA)
Topic: Developing and financing CMM projects

5:45 PM **Workshop Summary and Conclusion**

6:00 PM **Adjourn**