

# SMI Knowledge Transfer Presents an ACMER Short Course on Managing and Monitoring of Emissions for the Mining and Processing Industries



*Promoting leading practice through delivery of a quality professional development program, addressing the practical challenges of sustainable development in the minerals industry*



**4-6 November 2009  
Mercure Hotel, Perth WA**

Mining and processing operations today are committed to continual improvement in the environmental management of their operations. To demonstrate this commitment, many mining companies have become signatories to “Enduring Value - the Australian Minerals Industry Framework for Sustainable Development”, and the “Global Reporting Initiative”; the environmental performance of their operations is thus subject to formal scrutiny. Federal and State regulators and Local communities also closely monitor the performance of mines and smelters/refineries and quarries, all of which have the potential to impact the lifestyle and well-being of the communities in which they are situated. With the increased development in regional areas of Western Australia there is closer scrutiny and increased expectations for a higher standard of environmental performance (and transparency) required by companies to manage their emissions effectively. The challenge of sustainable development along with Australia’s proposed carbon pollution reduction scheme (CPRS) requires the mining, energy and infrastructure industries to adopt pro-active emissions management programs. These programs should take into account the nature of site emissions, data accuracy in measuring, monitoring and auditing of emissions and importantly, greenhouse gas (GHG) emissions.

The Personnel who have responsibilities for these emissions management programs need to be adequately trained and competent in the design and conduct of monitoring programs, and have the ability to interpret and report on data produced in such programs. Similar training is required by personnel in government agencies with responsibility for assessing industry environmental performance.

This ACMER course is structured such that on day 1, the focus will be on characterising emissions, reviewing current state regulations, an overview of air quality and dust management in Western Australia featuring Port Hedland, and more case studies on regional and community impacts of emissions from mine and processing sites.

On day 2 and 3 the focus will be on emissions management and monitoring, climate change risks and the drivers for greenhouse gas reductions in the mining and processing industries, including the National Greenhouse and Energy Reporting (NGER) system and the Australian Emissions Trading Scheme (AETS), energy monitoring, auditing and efficiency, practical methods of data management and case studies on Australian carbon capture projects.

## KEYNOTE SPEAKERS

Mr Benjamin McMahon - PAE-Holmes  
Mr Robin Ormerod - PAE-Holmes  
Mr Jonathan Harper - SKM  
Mr Adrian Blockley - Air Quality Management Branch  
W.A. Department of Environment and Conservation  
Mr Giacomo Collica – Emission Assessments Pty Ltd  
Mr Brendan Creavin – SKM  
Mr Arthur Grieco – W.A. Department of Environment and Conservation  
Mr Rod Lukatelich - BP Australia Kwinana Refinery  
Mr Sandeep Sharma - CO2CRC  
Mr Neil Salisbury - EnvironCorp  
Other industry speakers tbc

## BENEFITS OF ATTENDING

This short course provides an opportunity for mining and processing companies, port authorities, site personnel and regulators involved in emissions and energy management and monitoring, to:

- gain a better understanding of the characteristics of emissions and the regulations governing them at the state and federal level,
- better manage particulate emissions on site,
- compare and share case studies on successful approaches to managing air emissions,
- improve their awareness of dust management practices,
- understand the Australian legislation and implications for industry of the national greenhouse & energy reporting scheme, the energy efficiency opportunities act the carbon pollution reduction scheme and the mandatory renewable energy target,
- examine options for improving energy monitoring, auditing and efficiency,
- network with environmental personnel, government regulatory agencies, sustainability managers, engineers, energy efficiency managers, technical managers, system designers and consultants.



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## WORKSHOP OBJECTIVES

The course will:

- enhance the understanding of industry and regulatory personnel of the implications of air quality legislation in W.A.,
- provide practical examples of dust and noise management and monitoring at regional sites,
- inform the Australian mining and processing industries of the practical implications of carbon emissions management,
- provide practical tools to assist with data management, and improved efficiencies and reduced emissions,
- assist companies to move towards “carbon neutrality” by calculating, reducing and offsetting their greenhouse gas emissions.



## SHORT COURSE PROGRAM

### Wednesday 4th November

- Understanding and Characterising Air Emissions - Why are they so important?
- Regulation of Air Emissions NEPM, NPI and W.A. Legislation
- Emissions Estimation
- Ambient Air Monitoring in W.A. - Case Study (Community Impacts)
- Community & Regional Impacts of Air Emissions - Case Studies Kalgoorlie and Collie Airsheds
- Air Quality, Dust and Noise – The Port Hedland Airshed
- Managing Air Emissions and Community Concerns - Getting it Right! Case Studies

### Thursday 5th November

- Impacts and Effective Use of Real Time Emissions Monitoring
- Emissions Source Monitoring
- Modelling in Dust Management
- Case Study – Emissions and Noise from Heathrow Airport: Reducing Errors in Emission Control
- Greenhouse Gases and Climate Change - ‘What’s all this stuff about Cooling?’
- GHG Emissions Management for the Mining Industry
- Practical Monitoring and Auditing of Greenhouse Emissions for NGER Reporting
- Quantifying emissions: EET hierarchy; Accuracy vs cost trade-offs; Fitness for purpose

### Friday 6th November (Course Concludes 2.30pm)

- Specific reporting requirements for GHG emissions: Importance of data quality and data management system design
- Legislated requirements in NGER; Example calculations and data flow
- Energy monitoring, auditing and efficiency: Data management; Practical methods
- Carbon Capture & Storage - Case Studies
- Organisational response: Strategic thinking and adaptation to change; Potential costs and benefits; Corporate responsibilities



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## DELEGATE DETAILS

Title: .....

First Name: .....

Surname: .....

Position: .....

Organisation: .....

Postal Address: .....

Suburb/Postcode: .....

State/Country: .....

Phone: .....

Fax: .....

Email: .....

Dietary Requirements: .....

## REGISTRATION (Due 14th October 2009)

- EARLY-BIRD Registration - \$2195 - if registration received before Friday 25th September**
- Registration for the Short Course on Managing and Monitoring of Emissions for the Mining and Processing Industries, 4-6 Nov 2009
- \$ 2295.00 inc GST (2.5 days) (registrations received after 25th Sept)
- \$1050 inc GST (1 day) Please indicate day \_\_\_\_\_

**All prices include GST.** Registration costs include morning/afternoon refreshments, lunches, and a comprehensive set of notes. Limited places available.

## PAYMENT DETAILS

Cheque - made payable to JKTech Pty Ltd

Company Purchase Order No: .....

Company ABN No: .....

Mailing address for invoice: .....

Bankcard     MasterCard     Visa

Card Number:

Name of Cardholder: .....

Expiry Date: .....

Signature: .....

## FOR OFFICE USE ONLY



PAID DATE: \_\_\_\_\_ INVOICE NO: \_\_\_\_\_ ENTRY DATE: \_\_\_\_\_

## ACCOMMODATION

Delegates can book their accommodation at their own expense at the following hotels:

**Rydgges Perth**  
Cnr Hay & King Streets  
Perth 6000 WA  
Ph: +61 8 9263 1800  
Fax: +61 8 9263 1801

**Medina Grand Perth**  
33 Mounts Bay Road  
Perth, WA 6000  
Ph: + 61 8 9217 8000  
Fax: + 61 8 9217 8199

**Mercure Hotel Perth**  
10 Irwin Street  
Perth 6000 WA  
Ph: +61 8 9326 7000  
Fax: +61 8 92213344

For further accommodation options and information about Perth visit <http://www.westernaustralia.com/en/Destinations/Experience+Perth/Perth+City>

## WORKSHOP INFORMATION

Course days will commence at 8.30am and generally conclude at 5.00pm. Please note these times may be subject to slight variations. For more information please go to: [www.acmer.uq.edu.au/training/program.html](http://www.acmer.uq.edu.au/training/program.html)

## VENUE

Mercure Perth  
10 Irwin Street  
Phone: +61 8 9326 7000  
Fax: +61 8 92213344  
Email: h1754-fb04@accor.com  
Web: <http://www.accorhotels.com/gb/hotel-1754-mercure-perth/index.shtml>

## CANCELLATION

ACMER reserves the right to cancel any course at its discretion. Whilst we endeavour to make every effort not to do this, there could be circumstances beyond our control (e.g. insufficient numbers) that may prevent us from going ahead. In the light of this, if you need to fly, we suggest that you purchase a fully flexible airline ticket. Delegates cancellations 14-8 days before course commencement incur an administration fee of \$110. For cancellations 7 days or less before course commencement and non-attendance at the course, the full registration fee is payable. Substitutions accepted when advised.

## ACMER COMMUNICATION

Tick here if you do not wish to receive our electronic Program Updates

Where did you learn about this workshop?

ACMER Emailing                       ACMER Website

Colleague                                 Other (please specify): .....

REGISTRATION FORM - MANAGING AND MONITORING OF EMISSIONS FOR THE MINING AND PROCESSING INDUSTRIES, 4-6 NOV 2009, PERTH WA