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•DESIGNING, PLANNING AND ADAPTING VENTILATION SYSTEMS •
FAN MANAGEMENT AND VENTILATION OPTIMISATION •DPM DEVELOPMENTS •
EFFECTIVE SAFETY AND RISK CONTROL MEASURES •

Conference Day One - Wednesday 29th April 2015

09:00 – Opening Remarks from the Conference Chair

09:10 – UPDATE SESSION: Legislative Changes and Leading Practice for Mine Ventilation in Western Australia

- Understanding changes you can expect in future and steps to take you are ready to for the new regulations when they come
- Updates on the state of ventilation, risk management and safety standards
- Ensuring your site complies to standards
- Staying on top of regulator developments

Terry Siefkin, Senior Occupational Health Inspector, **Department of Mines and Petroleum**

09:50 – INDUSTRY DISCUSSION: The Standardisation of Legislation Across the States

This session will draw attention to the disparate regulatory and compliance controls across Australia. Through analysis of the shared goals and common threads needed to enhance the operational, safety and performance aspects of mine ventilation throughout Australia a shared agenda will emerge.

Hosted by Allison Golsby, Chief Executive Officer, **ConsultMine**

10:30 – Morning Tea, Networking and Information Exchange

11:00 – CASE STUDY: The Evolution of a Ventilation System from Portal to 1.5Mtpa Mine - A Ventilation Officer/ Planning Engineer's Perspective

- Challenges of advanced decline development on secondary ventilation
- Practical and flexible primary fan selection for short-term and LOM ventilation requirements
- Overcoming the challenges associated with primary ventilation upgrades
- Ventilation system flexibility to cope with major changes of mining strategy/mine design
- Challenges of meeting ventilation needs with haulage fleet upsizing/upgrades/aging fleets

Kelly Fleetwood, Underground Planning Engineer-Ventilation Officer, **DeGrussa Copper Mine, Sandfire Resources NL**

11:40 – Designing Mega Mines: Is it Time to Rethink Classic Ventilation Design?

- What are standard ventilation design criteria?
- Can these guidelines be applied to proposed Mega Mines?
- If not, what are the options to provide adequate airflows within such mines?
- Sharing examples of possible designs

Dr Michael Tuck, Associate Professor of Mining Engineering, **Federation University Australia**

12:20 – INDUSTRY INTERACTIVE: Questions and Insights Think Tank

An opportunity to ask probing questions, offer insight, and absorb the knowledge of your peers.

Facilitated by the Chair

12:30 – Lunch and Networking Break

13:30 – **CASE STUDY: Scoping, Feasibility and Installation/Upgrade of a Surface Fan**

- Planning and costing to ensure minimum impact with maximum outcome
- Overseeing the implementation phase
- Challenges faced and overcome
- Continuing developments and identifying further opportunities for improvement

14:10 – **PANEL DISCUSSION: How to Ensure Ventilation Performance, Reliability and Safety**

- How to mitigate risk when making cost saving decisions at underground sites?
- Balancing safety and savings in ventilation planning
- How to communicate with management the potential for bottom line savings
- Tailoring solutions for your mine site: the key considerations

Kelly Fleetwood, Underground Planning Engineer-Ventilation Officer, **DeGrussa Copper Mine, Sandfire Resources NL**

Paul Baker, Ventilation Engineer, **Telfer Mine, Newcrest**

14:50 – Afternoon Tea and Networking Break

15:20 – **Diesel Exhaust Emissions – Effective Monitoring, Measurement and Management**

- What makes up diesel exhaust emissions?
- Diesel particulate matter is it a problem?
- Limit values for gaseous emissions and DPM
- Monitoring, measurement and effective management, what are the options?
- Future trends

Dr Michael Tuck, Associate Professor of Mining Engineering, **Federation University Australia**

16:00 – **Sustainable Diesel Particulate Matter Management Solutions to Adopt at your Site**

- Recognising the way in which diesel particles may be altered for easier filtration
- Assessing the suitable solutions for use at your site taking variable factors into account
- Establishing mutually beneficial relationships with solution providers and government departments to ensure best practice
- Optimising existing technologies on site to reduce purchasing cost and how new solutions can work with these

Patrick Glynn, Former Project Leader, **CSIRO Exploration & Mining**

16:40 – FIFTH ANNUAL Networking Drinks – **Hard Rock Mine Ventilation 2015**

WORKSHOP A: 17:00 – 19:30

10 Key Ingredients for Your Diesel Management Plan to Keep Emissions Below the New Mandate of 0.1 mg per Cubic Metre

Since the reclassification of diesel particulates as a primary carcinogenic it has become essential for mine sites to have a diesel management plan in order to keep emissions as low as 0.1mg per cubic metre. Your expert facilitator, Terry Siefkin from the Department of Mines and Petroleum will provide you with the guidance you need to ensure that you are addressing the 10 key guidelines that will make your diesel management plan successful. You will walk away from this session equipped with the knowledge you need to develop and implement a diesel management plan on your site.

Key topics include:

- Understanding the ten key areas you need to be addressing for your site's diesel management plan

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- Reviewing best practice examples from studies conducted by the Department of Mines and Petroleum
- Weighing up the benefits of fitting engine filters across your entire fleet (including contractor vehicles!)
- Ensuring that your monitoring and control plan is adequate to support the implementations of your diesel management program in the long run

Facilitator:

Terry Siefkin, Senior Occupational Health Inspector, **Department of Mines and Petroleum**

Conference Day Two - Thursday 30th April 2015

09:00 – Opening Remarks from the Conference Chair

09:10 – Ventilation - Making the Clock Work

This keynote addresses some of the ventilation shortfalls in the past. The Ventilation Officer has a major responsibility. Without an adequate legal framework, management support and the right level of authority, proper ventilation management could come to a standstill. This session will highlight the importance of making the management of ventilation at a mine work like a clock.

Jaco Kok, President, **Mine Ventilation Society of Australia (MVSA)**

09:50 – Existing Standards, Management and Future Regulation for Crystalline Silica Exposure

During this session Allison will outline the current challenges faced by industry of airborne concentrations of respirable crystalline silica (RCS). Many studies have revealed that the current exposure standard for crystalline silica is not adequate to protect worker's respiratory health. Allison will offer an informed view on how this can be more effectively managed both now and in the future.

Allison Golsby, Chief Executive Officer, **ConsultMine**

10:30 – Morning Tea and Networking Break

11:00 – Exploring and Overcoming the Barriers to Ventilation Standards

Session details to be confirmed

Sean Seager, Occupational Health & Safety Coordinator, **La Mancha Resources**

11:40 – Heat Stress – Utilising Refrigeration Techniques for Ambient Temperature Control

- Best examples of designing mine cooling parameters for refrigeration use
- Planning for installation of airflow requirements
- Dealing with humidity and other side effects of high ambient temperature to improve the working conditions of the underground atmosphere and overall productivity
- Natural heat exchange and cooling systems

12:20 – INDUSTRY INTERACTIVE: Questions and Insights Think Tank

An opportunity to ask probing questions, offer insight, and absorb the knowledge of your peers.

Facilitated by the Chair

12:30 – Lunch and Networking Break

13:30 – Achieving Energy Cost Savings through Effective Ventilation Optimisation

14:10 – PANEL DISCUSSION: Ventilation on Demand- How is Technology Impacting Fan Efficiency and Ventilation Control Now and what's its Potential for the Future?

- Considering new ventilation techniques that can be applied at existing sites
- What is VOD really delivering?
- Implementing an entire ventilation on demand system vs. upgrading component parts
- Where are the future cost saving opportunities?

Allison Golsby, Chief Executive Officer, **ConsultMine**

14:50 – Afternoon Tea and Networking Break

15:20 – INDUSTRY INPUT SESSION: Collaborative Re-think on Cost Reduction- The What, Where and How! Facilitated by the Chair

16:00 Closing Remarks from the Chair and Close of Conference

WORKSHOP B: 16:30 – 19:00

Significantly Reducing Operational Costs via Ventilation on Demand (VOD)

With the possibility of slashing operational costs by 12% per month with the implementation of ventilation on demand systems, it seems like an easy choice. This interactive workshop will explore how you can save via the implementation of ventilation on demand at your site.

Key topics include:

- Discussing the benefits of implementing an entire ventilation on demand system over upgrading component parts
- How ventilation on demand will result in real cost savings at your site
- Safety benefits of ventilation on demand- explore the ways in which this system can assist in self-escape
- Increasing efficiency through complete automation of ventilation systems

Facilitator:

Allison Golsby, Chief Executive Officer, **ConsultMine**

Day 3 - Friday 1st May 2015

WORKSHOP C: 09:30 – 12:00

An A-Z Guide for Reducing and Eliminating your Diesel Emissions, Including the Latest International Best Practice Case Studies

Recently, ventilation engineers have faced increasing pressure to reduce their diesel emissions; a task that is by no means simple. This interactive session will take you through the latest research from Australia and overseas, covering case studies and best practice examples on how to reduce and even eliminate diesel emissions on your site. Led by one of the industry's premier thought leaders in DPM management, the key areas of discussion include:

What your workshop will cover:

- An introduction to the short and long-term health risks and implications of DPM
- How to mitigate the risks of diesel emissions on your site
- Examining the latest case studies around baseline dust monitoring for DPM, including a look at sites that have moved from diesel to electric vehicles
- Examining how to reduce and eliminate emissions caused by your machines
- What are the true health and financial costs of inaction?
- What are the legislative implications?

Facilitator:

Patrick Glynn, Former Project Leader, **CSIRO Exploration & Mining**