

WA'S # 1 MINING PRODUCTION CONFERENCE & EXHIBITION NETWORKING

IN PARTNERSHIP WITH THE M&E WA EXHIBITION
– WA'S PREMIUM MINING INDUSTRY MARKETPLACE & INFORMATION EXCHANGE



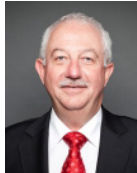
MINE PRODUCTION OPTIMISATION & OPERATIONAL EFFICIENCIES

6 - 7 MAY 2014 PERTH CONVENTION & EXHIBITION CENTRE

SPEAKERS



Michael De Viana, Operations Centre Manager
Wagerup, **ALCOA OF AUSTRALIA**



Graham Short, National Policy Manager,
THE ASSOCIATION OF MINING & EXPLORATION COMPANIES (AMEC)



Steve Tombs, Business Improvement Manager,
ANGLOGOLD ASHANTI



Prof Ross McAree, Automation Program Leader,
CRCMINING



Dr Tim Griffin, Deputy Director General, Approvals,
DEPARTMENT OF MINES AND PETROLEUM WA



Ben Ludik, Head of Contracts and Supply Chain,
GOLD FIELDS AUSTRALIA



Craig Bradshaw, Chief Operating Officer,
SARACEN MINERAL HOLDINGS

Asareh Mansoori, Mine Superintendent/QM,
ATLAS IRON

Alan Langford, Chief Economist,
BANKWEST

Dr Mohammad Asad, Senior Lecturer, Department of Mining & Engineering,
WA School of Mines,
CURTIN UNIVERSITY

Simon Ridge, Executive Director Resources Safety,
DEPARTMENT OF MINES AND PETROLEUM WA

Andrew Buratti, Business Improvement Superintendent,
FORTESCUE METALS GROUP

Neil Watson, WA Manager, Construction and Mining Risks,
WILLIS AUSTRALIA & President, WA MINING CLUB

Augy Wilangkara, Processing Manager – Mt Magnet Gold Project,
RAEMEILUS RESOURCES

Dave McGowan, AP Region Senior Mining Manager,
BARRICK GOLD

David Wandel, Director,
STRATEGIC MINES

Darryl Whiteley, Director,
UTILIBIZ

Kevin Kim, Senior Mining Engineer,
WESTERN AREAS

CONFERENCE HIGHLIGHTS

- Aligning planning processes for operational efficiency
- Production scheduling and integrated operations planning
- Updates and reforms to WA's approvals system
- Production phase design and reducing complexities
- Optimising existing assets, equipment and people
- Operational readiness and production success
- Integrating plant processes with mine operations
- Increasing productivity through automation
- Managing mining equipment selection and costing
- Improving maintenance reliability
- Achieving the zero harm goal
- Operational performance through contractor engagement

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JOINTLY PRESENTED BY



CONFERENCE & EXHIBITION TO BE HELD IN ONE LOCATION

THE CONFERENCE

Resourceful Events and REEDMININGEVENTS are proud to present the Mining & Engineering WA 2014 conference.

Focusing on mine production optimisation & operational efficiency, the Mining & Engineering WA 2014 conference is the perfect opportunity to exchange information and benefit from case studies, keynotes and vibrant discussion focused on improving production optimisation and operational efficiencies.

To register for the conference please see the back page of this brochure, or visit www.miningandengineeringwa.com.au/conference14

All conference delegates have full access to the M&E WA exhibition and associated networking.



THE EXHIBITION

Mining & Engineering Western Australia (M&E WA) 2014 is a bi-ennial mining industry exhibition that focuses on the unique needs, challenges and opportunities facing Western Australia's mining industry.

A Perth-based platform for suppliers to:

- **GAIN** access to Australia's #1 mining state
- **LAUNCH** products and services
- **GENERATE** business contacts to stay ahead of competitors

M&E is the leading WA exhibition for visitors to:

- **SOURCE** the latest mining technology and innovations
- **GAIN** insights into improving efficiency & boosting productivity
- **NETWORK** with industry peers



KEY FACTS FROM THE M&E WA 2011 EXHIBITION**

- 2,749 visits over 3 days & 127 exhibitors
- 73% of visitors were satisfied or very satisfied with their overall experience at M&E WA
- 45% of visitors stated they held direct authority or influence for purchasing decisions
- 91% of visitors stated that they intend or may visit M&E WA again

TOP 5 VISITOR & INDUSTRY CATEGORIES**

Job Function Category	Industry Category
■ Engineer 19.6%	■ Mining 22.5%
■ Director/CEO/Managing Director/General Manager/Owner 13.1%	■ Maintenance 5.3%
■ Tradesperson 3.5%	■ Engineering 11.3%
■ Maintenance 3.3%	■ Construction 7.4%
■ Operators 4.9%	■ Contracting 2.0%

**Sources: CAB Audit – M&E (WA) 2011 / Micromex Visitor & Exhibitor Surveys – M&E (WA) 2011



CONFERENCE DAY ONE TUESDAY 6 MAY 2014

8.20 Registration and morning coffee

8.50 Opening remarks from the Chair
Craig Bradshaw, Chief Operating Officer,
SARACEN MINERAL HOLDINGS

MACRO OUTLOOK

9.00 KEYNOTE:

Australia's mining and metals economic outlook, growth and opportunities for miners

- Demand prospects from key buyer markets, commodity price analysis, and China
- Resource economics - global and local influences on a capital intensive mining industry
- The transition to increased mining services and technology exports

Alan Langford, Chief Economist, BANKWEST

MINE PLANNING AND OPTIMISATION

9.40 CASE STUDY:

Achieving efficiencies through better alignment of planning processes

- Improving operational efficiency through strong shift planning and decision making
- Getting the most out of your people and equipment
- Managing shift times and how the short interval control process can help
- Effective planning to reduce rework and achieve better attainment of goals

Dave McGowan, AP Region Senior Mining Manager, BARRICK GOLD

10.20 Morning tea

10.50 CASE STUDY:

Mine optimisation with a geologically complex high grade massive sulphide orebody

- Overcoming challenges in implementing mining planning and scheduling due to an inconsistent orebody (from narrow vein to wide ore width)
- How the orebody impacts mine design
- Specific mining methods employed at Flying Fox Underground to deliver ore and tonnes to the market
- Challenges from the low nickel price and geotechnical considerations from mining deeper

Kevin Kim, Senior Mining Engineer, WESTERN AREAS

PRODUCTION SCHEDULING & RISK MINIMISATION

11.30 CASE STUDY:

Achieving efficiency in your mine through effective production scheduling

- Overview of AngloGold Ashanti's operating model
- Integrated planning - transforming business expectations into an integrated plan for work execution
- Developing the schedule with the required management routines
- Dynamic compliance - measures, reporting and processes to improve performance

Steve Tombs, Business Improvement Manager, ANLOGOLD ASHANTI

12.10 Managing risks which impact on business and production

Neil Watson, WA Manager, Construction and Mining Risks, WILLIS AUSTRALIA & President, WA MINING CLUB

12.50 Lunch

1.50 KEYNOTE:

Updates and reforms to WA's approvals system

- WA's progression towards a risk-based assessment system
- Gaining clarity on additional reforms planned for 2014 and how they will impact your operation
- Managing any risks in achieving compliance to tighter environmental standards
- Finalising the Mining Rehabilitation Fund's regulatory framework

Dr Tim Griffin, Deputy Director General, Approvals,

DEPARTMENT OF MINES AND PETROLEUM WESTERN AUSTRALIA

PRODUCTION PHASE BEST PRACTICE

2.30 TECHNICAL INSIGHT:

Performance evaluation of the stochastic approach to production phase (pushback) design in open pit mining operations

- A new stochastic framework for optimal design of production phases and ultimate pit limit that accounts for the expected variability and uncertainty in metal content
- An implementation of the new stochastic framework in gold and copper deposit case studies
- A validation of the method through a 30% increase in discounted cash flows and consistency in size of the phases (pushbacks) in the case studies

Dr Mohammad Asad, Senior Lecturer, Department of Mining and Engineering, Western Australian School of Mines, CURTIN UNIVERSITY

3.10 Afternoon tea

3.30 CASE STUDY:

Ensuring ongoing improvement gains without adding additional complexity

- Establishing a framework for improvement
- Coping with limited resources and how to encourage people participation in improvement projects
- Delaying elimination and maximising production throughput

Andrew Buratti, Business Improvement Superintendent,
FORTESCUE METALS GROUP

4.10 PANEL SESSION:

Production and operational efficiencies in practice

Understand from industry panel members how they may have adopted different strategies or initiatives regarding:

- Reducing bottlenecks
- Focusing on remaining productive and cost efficient
- Getting the most out of existing assets, equipment and people

Panel moderator:

David Wandel, Director, STRATEGIC MINES

Panelists include:

Dave McGowan, AP Region Senior Mining Manager, BARRICK GOLD

Other panelists under invitation

4.50 Closing remarks from the Chair

5.00 – 6.00

TAKE TIME TO VISIT THE M&E WA EXHIBITION

6.00 M&E WA NETWORKING DRINKS

CONFERENCE DAY TWO WEDNESDAY 7 MAY 2014

8.30 Morning coffee

9.00 Opening remarks from the Chair:
Michael De Viana, Operations Centre Manager Wagerup, ALCOA OF AUSTRALIA

9.10 KEYNOTE:
Challenges for WA's mining industry and outlook for the future

- Securing the mines of tomorrow: what is required by federal and state governments to ensure a robust future for Australian mining
- Opportunities and challenges for a productive and cost efficient industry, as projects transit on from construction to production phases

Graham Short, National Policy Manager,
THE ASSOCIATION OF MINING AND EXPLORATION COMPANIES (AMEC)

STREAMLINING OPERATIONS

9.50 CASE STUDY:
Bringing Mt Dove to operational and production success

- Operation Readiness
 - Ops readiness mapping
 - Ops readiness checklist
 - Meeting communication requirements
- Production Phase
 - Minimising internal waste mining
 - Recovering extra ore outside of pit design
 - Overcoming pit edge blasting challenges

Asareh Mansoori, Mine Superintendent/QM, ATLAS IRON

10.30 CASE STUDY:
Plant process optimisation and integration with mine operations

- Process development and optimisation within the processing plant
- Ensuring operational readiness
- Integrating plant operations with mine production
- Improving the mine-to-mill process

Augy Wilangkara, Processing Manager – Mt Magnet Gold Project,
RAMELIUS RESOURCES

11.10 Morning tea

MAINTENANCE & MAXIMISING OUTPUT

11.30 CASE STUDY:
The role of maintenance reliability and maximising long term production

- Predicting expected life of mining equipment, availability and utilisation
- Reducing equipment breakdown
- Cost effective methods for equipment maintenance

Michael De Viana, Operations Centre Manager Wagerup, ALCOA OF AUSTRALIA

12.10 Adopting a cost effective drill and blast strategy

- Optimising drill and blast techniques to suit the nature of the rock
- Techniques and approaches for optimal precision
- Utilising appropriate software to improve turnaround time in the drilling process
- Demonstrating how an efficient drill and blast strategy can impact on cost reduction

12.50 Lunch

EQUIPMENT ADVANCES & SELECTION

1.40 KEYNOTE:
Automation as a driver for increased productivity

- Deriving efficiency gains through automation technology and process improvements
- Understanding recent innovations and adoption of automation technology
- Evaluating the cost vs benefits of automation in your mine, and building a business case

Prof Ross McAree, Automation Program Leader, CRCMINING

2.20 CASE STUDY:
Managing the selection and costing decisions of major mining equipment

- Balancing the effective allocation of capital to best achieve mine equipment requirements
- Assessing equipment operating costs and alignment with business/operational requirements
- Streamlining supply strategies to reduce impact on mine operational efficiency

Ben Ludik, Head of Contracts and Supply Chain,
GOLD FIELDS AUSTRALIA (Incl. Global Sourcing Council)

3.00 Afternoon tea

OPERATIONAL PERFORMANCE

3.30 KEYNOTE:
Productivity vs safety: achieving the zero harm goal

- Risk mitigation and an overview of preventative safety strategies
- Initiating new safety standards to improve mine operations
- Challenges to implementing preventative safety measures and how you can overcome them
- Measuring the success of your safety initiatives

Simon Ridge, Executive Director Resources Safety,
DEPARTMENT OF MINES AND PETROLEUM WESTERN AUSTRALIA

4.10 Contractor engagement to drive operational performance

- Aligning contractor activities to operational objectives
- Managing, utilising and measuring the value you gain from your contractors
- Driving contractor performance to meet operational and mine planning requirements
- Exploring operational challenges and fostering strong relations on-site between mine owner and contractor

Darryl Whiteley, Director, UTILIBIZ

4.50 Closing remarks from the Chair & end of conference

ALL CONFERENCE DELEGATES WILL HAVE ACCESS TO THE M&E WA EXHIBITION.

EXHIBITION HOURS:

Tuesday	6 May 2014 (conference day 1)	10am - 6pm
Wednesday	7 May 2014 (conference day 2)	10am - 6pm
Thursday	8 May 2014	10am - 4pm

WHO SHOULD ATTEND & WHY

- Heads of operations
- Mining managers (open cut and underground)
- Mining engineers/ superintendents/ managers
- Production superintendents/ engineers
- Heads of engineering and planning
- Mining consultants
- Technical services managers
- Asset, reliability & maintenance managers

Discover how peers are increasing production and output, improving efficiencies, minimising complexities, and reducing costs.

MAXIMISE	production output
INTEGRATE	mine planning with operational requirements
OPTIMISE	existing assets, equipment and people
NETWORK	at the conference, and the exhibition

ABOUT RESOURCEFUL EVENTS

Resourceful Events researches and develops industry summits providing key strategic and operational insight for the resources sector.

As the Australian conference division of Aspermont Limited – publisher of Australia's leading print and internet publications for the mining, oil & gas, and related sectors – we have strong market reach to the resources industry, resources sector service providers, and the resources investment sector.

Aspermont runs Resourceful Events in partnership with Hong Kong based firm Beacon Events. The companies have jointly produced the highly successful Mines and Money series of events in Hong Kong, Beijing, London and Melbourne.

ABOUT REEDMININGEVENTS

REEDMININGEVENTS conducts five leading mining exhibitions and one CSG-LNG exhibition that cover Australia's key mining regions. The exhibitions are strategically timed and located as part of a structured calendar of established events with successful track records which date back to the 1970s.

In an increasingly digital age, exhibitions are the only medium where buyer, seller and product physically come together. Visitors have the opportunity to evaluate products and suppliers, keep abreast of industry and market developments as well as discuss specific terms and pricing directly with suppliers.

REEDMININGEVENTS guarantees all of its events are of the highest calibre and prides itself on delivering business to business solutions that translate into a return on investment for all their customers.

REEDMININGEVENTS is owned and operated by Reed Exhibitions Australia, the world's leading organiser of premier trade and consumer exhibitions.

BUSINESS DEVELOPMENT & SPONSORSHIP

If you are a vendor, consultant, supplier or service provider, event sponsorship is an excellent way for you to promote your company, improve your profile and generate relationships with a pre-qualified audience of resources industry professionals.

We have a range of opportunities available for businesses of all sizes.

To find out more please contact:

Warren Queenan, Sales Manager, REEDMININGEVENTS
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Delegates are entitled to a complimentary trial subscription to any of the following Aspermont publications*:

AUSTRALIA'S MINING MONTHLY (X 3)	CONTRACTOR (X 3)
RESOURCESTOCKS (X2)	CRANES & LIFTING AUSTRALIA (X 1)
AUST. LONGWALL MAGAZINE (X 1)	WME (X 3)
COAL USA (1 EDITION)	

Please advise your choice of publication to staff on the registration desk at the event *Conditions - within Australia only; new subscriptions only; does not replace existing subscriptions; for one of the above publications. Post-event, Aspermont will be in contact to fulfill your subscription trial.

6 - 7 MAY 2014 PERTH CONVENTION & EXHIBITION CENTRE MINE PRODUCTION OPTIMISATION & OPERATIONAL EFFICIENCIES

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EMAIL nina.vidale@reedexhibitions.com.au
MAIL Reed Mining Events
 Locked Bag 7888, Chatswood DC NSW 2067

OR ONLINE WWW.MININGANDENGINEERINGWA.COM.AU/CONFERENCE14

REGISTRATION CODE RA847 WEB

VENUE INFORMATION

Perth Convention & Exhibition Centre
 21 Mounts Bay Rd, Perth, WA 6000

Transport & parking: www.pcec.com.au

Travel & accommodation deals:
miningandengineeringwa.com.au/en/getting-there

FEE TABLE

Book by 28 February 2014

Book by 4 April 2014

Thereafter

	Price	GST	TOTAL	SAVE	Price	GST	TOTAL	SAVE	Price	GST	TOTAL
Conference & Exhibition	\$2,195	\$219.50	\$2,414.50	\$440	\$2,395	\$239.50	\$2,634.50	\$220	\$2,595	\$259.50	\$2,854.50

Delegate 1

(Mr/Mrs/Ms/Miss/Dr) Name

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Cancellation Policy: Should you be unable to attend, a substitute delegate is always welcome at no extra charge. Alternatively, a 50% refund will be provided for cancellations received in writing (letter or facsimile) no later than four weeks prior to the event; thereafter we regret no refunds can be made. Resourceful Events Pty Ltd reserves the right to alter the programme without notice including the substitution, alteration or cancellation of speakers and / or topics and / or alternation of the dates and / or location of the event. © Resourceful Events Pty Ltd. All rights reserved.

Please Note: On-site registration / payment: AUS\$220 surcharge will be collected and no discounts are available. #Early bird rates are contingent upon payment being received within 14 days from the registration date. Group discounts are available for three or more bookings from one company, please contact the organiser for more information. All discounts can only be applied at the time of registration and discounts cannot be combined. In the event that more than one discount is applicable, delegates will receive the discount with the highest value. All discounts are subject to approval. Please note the conference fee does not include travel or hotel accommodation costs.