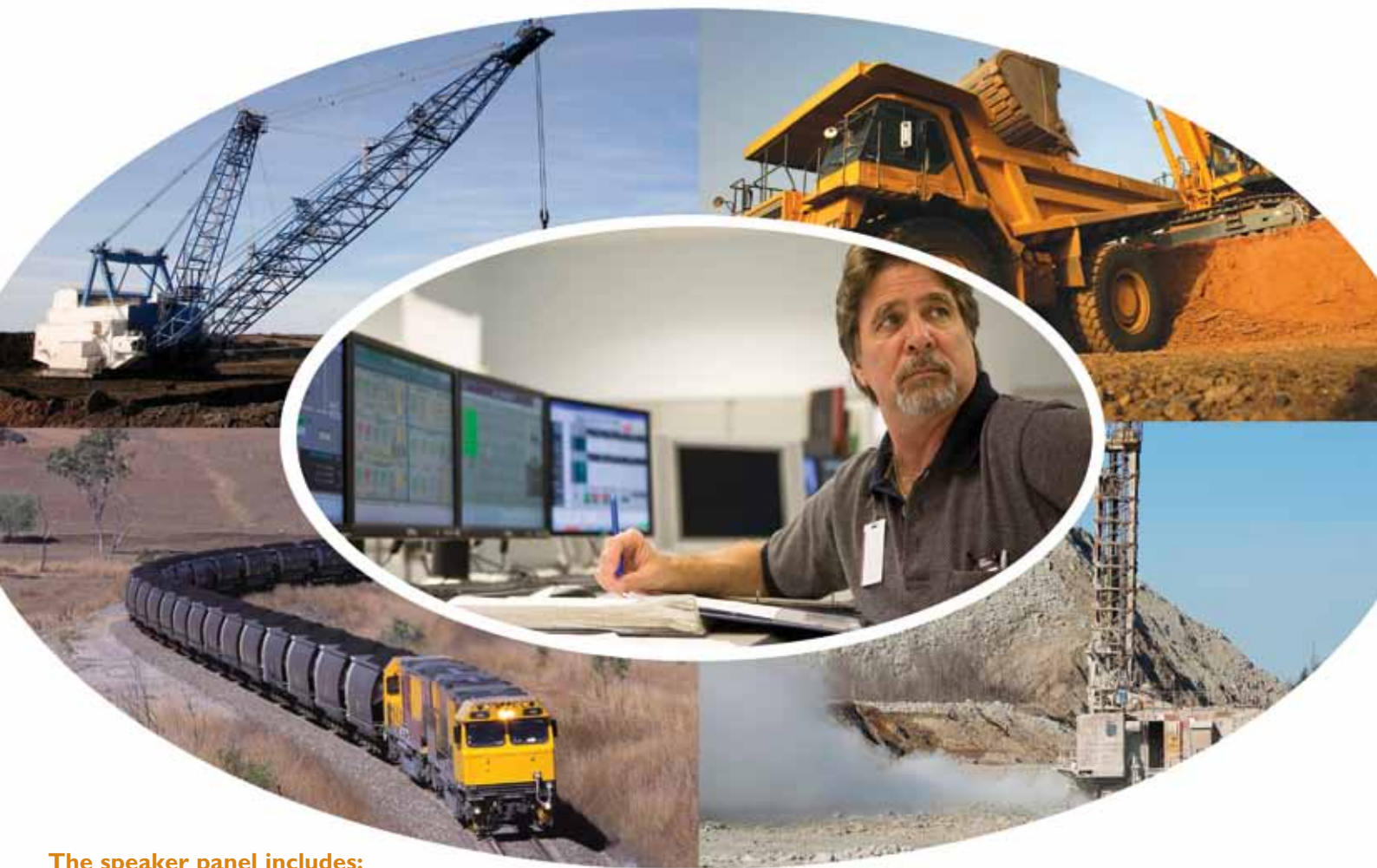


# Remotely Operated Mining Projects

28th – 29th November 2011 | Citigate Perth

*Utilising Remote Operation Centres and automation to drive the next generation of mining operations*



## The speaker panel includes:

Greg Lilleyman, President - Pilbara Operations, **Rio Tinto**  
Olga Sawtell, CEO Operations, **Australian Centre for Field Robotics**  
Jock Cunningham, Theme Leader, Transforming the Future Mine, **CSIRO**  
Senior Representative, **Leica Geosystems - Mining**  
Jeremy Newman, National Business Development Manager - Mining, Minerals & Metals, **Schneider Electric**  
David Hattrick, Director Oil & Gas and Mining, Asia Pacific, **Oracle Corporation**  
Reuben Kooperman, Director, **Kooperman Project Management**

Peter Hunt, Executive Chairman, **Peter Hunt Architect**  
David Beck, Principal Engineer, General Manager, **Beck Engineering**  
Dr Adrian Boeing, Senior Engineer, Control and Automation, **Transmin Pty Ltd**  
Mike Lomman, Managing Director, **OpX Solutions**  
Andrew Jessett, Chief Executive Officer, **MineWare Pty Ltd**  
Matthew Michalewicz, Co-founder, **SolveIT Software Pty Ltd**  
David Cavanagh, Managing Director, **Integrated Energy**  
Patrick Warrand, General Manager Operations, **Wesfarmers Premier Coal**  
Richard Taylor, CTS-D, Design Engineer, **Concept AV**



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Researched and developed by:

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## DAY ONE

Monday 28th November 2011

8.30 Registration and Coffee

9.00 Opening Remarks

### 9.10 KEYNOTE ADDRESS

#### Leading the Industry in Innovation – Mine of the Future™

- Where are we at with remotely operated projects?
- Where are we going?
- Why is remote operation important to our business?
- Rio Tinto's mine of the future vision

Greg Lilleyman, President – Pilbara Operations, Rio Tinto



### 9.50 Revolutionising Traditional Mining and Remotely Operated Mining with Autonomous Systems

- Understanding autonomous systems and their implementation
- Improving planning and scheduling with autonomous systems
- Cost savings from automation
- Enhanced safety and production from autonomous processes drawing on South American case studies

Olga Sawtell, Chief Executive Officer, Australian Centre for Field Robotics



10.30 Morning Refreshments

### 11.00 Optimising Mining Supply Chains – The Importance of Integrating Planning for Remote Operations

- Global optimisation and breaking down the barriers of functional silo's – The importance of people, process and technology
- Managing process and event variability and responding efficiently to changes in the plan
- Handling moving bottlenecks in mining supply chains
- What constitutes a "robust" or "resilient" budget, forecast or plan?
- Managing risk to achieve production KPI's

Matthew Michalewicz, Co-founder, SolveIT Software Pty Ltd



### 11.40 Incremental Application of Technology to Improve Mining Operations

- Overview of Premier Coal operations in the SW of WA
- Current uses of automated technology within the operation and its development
- Recent technology introduced including the implementation of a Proximity detection in the operation
- What worked and what didn't in terms of implementation of technology
- What is next from a medium sized operators point of view

Patrick Warrand, General Manager Operations, Wesfarmers Premier Coal

### 12.20 Enabling Remote Operations with Integrated Solutions

- The challenges in managing multiple operations as a single demand chain
- Using an integrated technology approach to provide remote connectivity to operations
- Benefits of standardising to provide trusted data to manage a mining business



Jeremy Newman, National Business Development Manager - Mining, Minerals & Metals, Schneider Electric

1.00 Lunch

## REMOTELY OPERATED TECHNOLOGY

### 2.00 Taking Advantage of Emerging Technology which Enhances Operators' Perception of the Remote Environment

- Emerging technologies from remote operation – beyond SCADA
- Opportunities to enhance operator experience and improve tele-perception
- Opportunities for geological machine control



Jock Cunningham, Theme Leader, Transforming the Future Mine, CSIRO

### 2.40 Topic to be advised

Derek Walsh, General Manager – Australasia, Leica Geosystems - Mining

3.20 Afternoon Refreshments

### 3.50 Improving Collaboration across Planning and Support Teams with Simulation Aided Engineering

- The Simulation Aided Mining Engineering Concept: Collaborative monitoring, modelling, planning and operations
- Case Studies: Using SAME to improve how we mine now – Key changes and results
- Requirements for training, quality standards and software development



David Beck, Principal Engineer, General Manager, Beck Engineering

### 4.30 CASE STUDY

#### Remotely Operated Rockbreaking

- Overview of remote rockbreaker operation approaches
- Enhancing remote operation with automation and collision avoidance technology
- Safety, maintenance and Australian Standards for remote machinery
- Case study - Remote operation of an automated underground rockbreaker



Dr Adrian Boeing, Control & Automation Business Development, Transmin Pty Ltd

5.10 Close of Day One and Networking Drinks



# ed Mining Projects

## DAY TWO

Tuesday 29th November 2011

8.30 Coffee and Networking

9.00 Opening Remarks

9.10 **The Influence of an Integrated Operations Philosophy on Design and Operation of Remote Large Scale Oil & Gas Developments in Australia**

- The proven benefits of integrated operations across the oil & gas industry
- Case Study of the intelligent operations (iOps) philosophy at Woodside Energy
- Use of a broad approach considering people, process, organisation, physical environment and technology
- How integrated operations thinking facilitates remote operations
- Design of a way of working that can enhance HSE, substantially increase project value and support development of people, for a modest spend relative to the benefits



David Cavanagh, Managing Director, **Integrated Energy**

## REMOTE OPERATION CENTRES (ROCS)

9.50 **Building a Remote Operations Centre**

- Site parameters and site selection
- Development models and procurement options
- Design considerations
- Accommodating the technology
- ROC examples



Reuben Kooperman, Director, **Kooperman Project Management**



Peter Hunt, Executive Chairman, **Peter Hunt Architect**

10.30 **Decision Support for Remote Operations**

- Who is making the decisions?
- What decisions should be made?
- What are the KPI's?
- Rearward looking vs. forward looking
- How do we present information?



Mike Lomman, Managing Director, **OpX Solutions**

11.10 Morning Refreshments

11.40 **CASE STUDY**

**A Bird's Eye View: The Role of Integrated Support Centres in Remote Dragline and Shovel Monitoring**

- The future trends in remote dragline and shovel fleet monitoring
- The role of Integrated Support Centres (ISCs) in improving the quality and visibility of production and maintenance data from the world's largest mining machines
- One company's vision and journey to create its first integrated support centre for remote dragline and shovel monitoring
- How technology will continue to change the way mines collect, analyse and derive value data to deliver key improvements performance, efficiency and effectiveness.



Andrew Jessett, Chief Executive Officer, **MineWare Pty Ltd**

12.20 **The Top of the ROC - Mining Operational Intelligence**



David Hattrick, Director Oil & Gas and Mining, Asia Pacific, **Oracle Corporation**

1.00 **The Use of Video Walls in Operation Centres**

Richard Taylor, CTS-D, Design Engineer, **Concept AV**

1.40 Close of Conference and Lunch



### Benefits of attending Remotely Operated Mining Projects:

- Evaluate the benefits, drawbacks and expectations of automation and remote operations
- Review the process of successful introduction of automation to mine operations
- Hear case studies of successful implementations of remotely operated technology and remotely operated centres
- Discover innovative technologies and systems to increase efficiency, productivity, control and safety
- Examine the development of successful remote operation centres to an organisation

## UPCOMING EVENTS

**The 4th OTR TYRES Conference**

17 - 18 October 2011 | Novotel Brisbane

[www.informa.com.au/tyres](http://www.informa.com.au/tyres)

**Galilee Basin Coal & Energy Conference**

22 & 23 November 2011 | Stamford Plaza Hotel, Brisbane

[www.informa.com.au/galileebasin](http://www.informa.com.au/galileebasin)

**Securing Local Content in Major Resources Projects**

21 & 22 November 2011 | Mercure Hotel Perth

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Two day conference	\$2595	\$259.50	\$2854.50	\$400	\$2995	\$299.50	\$3295.50



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This unique conference will allow you to hear insightful case studies from Rio Tinto's Pilbara Operations, Transmin Pty Ltd, Mineware Pty Ltd, Wesfarmers Premier Coal; review the existing and emerging remotely operated technologies, find out how to build a Remote Operations Centre and more...

### Conference Venue

#### Citigate Perth

707 Wellington Street, Perth, Western Australia 6000  
Phone: 08 9327 7000, Toll Free (Within Australia): 13 15 15  
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