

# Fatigue Management in the Resources Industry

29th - 30th September 2011 | Stamford Plaza Brisbane Hotel

**A new focus on successfully managing fatigue in the mining,  
CSG and engineering sectors**



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**The outstanding speaker panel includes:**

Dr Paul Roberts, Senior Research Consultant, **ARRB Group**

Peter Simpson, Managing Director,  
**BSS Corporate Psychology Services**

Mark Holmes, Chairman, **CIRCADIAN® AUSTRALIA**

Dr Trent Watson, Chief Executive Officer, **Ethos Health**

Errol McKenzie, Vice President, **Fatigue Science**

Osman Bahemia, General Manager, **Greyhound Commercial**

Hon. Clive Brown, Chair,  
**National Mine Safety Framework Steering Group**

Norman Jennings, Council Chairman,  
**NSW Mine Safety Advisory Council (MSAC)**

Dr James Douglas, Sleep Health Foundation, Director, Sleep  
Disorders Centre, **The Prince Charles Hospital**

Ian Dunican, Principal Adviser - HSEC Projects, Global HSEC  
Practice, **Rio Tinto**

Jim Huemmer, Roster Consultant, **Shiftwork Solutions**

Matthew Smith, Partner, **Sparke Helmore Lawyers**

Drew Dawson, Director, Centre for Sleep Research,  
**University of South Australia**

Sally Ferguson, Assistant Director, Centre for Sleep Research,  
**University of South Australia**

Jessica Paterson, Post-Doctoral Research Fellow, Centre for Sleep  
Research, **University of South Australia**



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Researched and developed by:

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# Fatigue Management in

## DAY ONE: Thursday 29th September 2011

8.30 Registration and Coffee

9.00 Opening Remarks

### 9.10 **Symposia: New Directions in Fatigue Management**

- The history and development of fatigue management
- Outline of the Defences in Depth (DiD) approach to fatigue management
- Discussion of the current 'state of the nation' in regards to each level of the DiD model in relation to mining, with examples from other industries
- Case studies

Drew Dawson, Director; Sally Ferguson, Assistant Director & Jessica Paterson, Post-Doctoral Research Fellow, Centre for Sleep Research, **University of South Australia**

## FATIGUE MANAGEMENT IN THE WORKPLACE

### 9.50 **Managing Fatigue in NSW Mining and Extractive Industry**

- Role and Program of MSAC in working towards world-leading OHS culture and performance in NSW
- Development and rollout of MSAC's Fatigue Management Plan Guide
- OHS crossover into mining communities under the banner "Looking After Each Other" Including fatigue issues

Norman Jennings, Chairman, **NSW Mine Safety Advisory Council (MSAC)**

10.30 Morning Refreshments

### 11.00 **Unlocking the Door to a Fatigue Resistant Culture – How to empower the people at the coal face to manage fatigue**

- Why are we not responding to this risks, signs and symptoms? How can this be overcome?
- Creating a clear and demonstrable fatigue management system that will promote a culture that overcomes the barriers of reporting fatigue and allow a better response to fatigue as a risk to the health and safety
- Explore why people are not reporting fatigue
- The concept of 'active fatigue management': a new way to engage the workforce, being proactive and accountable for fatigue in the workplace.

Dr Trent Watson, Chief Executive Officer, **Ethos Health**

### 11.40 **Assessing and Designing Rosters and Hours of Work for Shiftwork Operations in the Mining Industry**

- Historical perspectives, trends and examples from recent mining projects/assignments
- Site specific and industry data regarding sleep, hours of work and other factors
- Relationships between employee preferences and fatigue
- What makes a roster or hours of work unsafe?
- Achieving acceptable levels of risk

Jim Huemmer, Roster Consultant, **Shiftwork Solutions**

12.20 Lunch

### 1.20 **Sleep Needs and the Mining Industry - How can we ensure our workforce are fit for duty?**

- The need for sleep and effects of sleep loss on safety and productivity
- How this is impacted by shift work, travel and sleep disorders
- Strategies to minimise risk

Dr James Douglas, Sleep Health Foundation, Director, Sleep Disorders Centre, **The Prince Charles Hospital**

## OFF-SITE FATIGUE MANAGEMENT

### 2.40 **Using Bus Transport to Reduce Fatigue Related Risks on the Road and On-site**

- Travel to and from work is high risk and unregulated - Not only in your car but on the bus
  - Replacing cars with buses - The idea is right but how do you make it as safe as possible?
  - Transport Safety Audit - How to choose a bussing partner
- Osman Bahemia, General Manager, **Greyhound Commercial**

3.10 Afternoon Refreshments

### 3.40 **Managing Fatigue During the Journey To and From Work**

- The nature of the problem
- The multi factorial requirement for management strategies
- Research and case studies
- A comprehensive approach to fatigue management during the journey to and from work in the resources industry

Dr Paul Roberts, Senior Research Scientist, **ARRB Group**

### 4.20 **Development and Implementation of Strategies to Improve Safety on Roads and in Workplaces**

For speaker updates visit [www.informa.com.au/fatigue-in-resources](http://www.informa.com.au/fatigue-in-resources)

5.00 Closing Remarks from Chair

5.10 Close of Day One and Networking Drinks 

## DAY TWO: Friday 30th September 2011

8.30 Registration and Coffee

9.00 Opening Remarks

## SUCCESSFUL FATIGUE MANAGEMENT STRATEGIES

### 9.10 **CASE STUDY**

#### **Proactively Managing the Risk of Fatigue Within Rio Tinto**

- An integrated approach to managing fatigue – A case study
- Contributing to triple bottom line reporting – Regional strategy for Rio Tinto
- Key changes made within the business
- Measuring fatigue – What have we learnt
- What next?

Ian Dunican, Principal Adviser - HSEC Projects, Global HSEC Practice, **Rio Tinto**

Errol McKenzie, Vice President, **Fatigue Science**

# the Resources Industry

9.50

## CASE STUDY

### Implementing a Fatigue Management Program - An International Perspective

- Establishing a framework to assess the company's current strategy
- Conducting a detailed assessment of the adequacy and effectiveness of current strategies
- Developing a comprehensive fatigue management plan for the site
- Comparison of international sites to Australian sites - Similarities and differences
- Challenges of implementing a fatigue management plan in a third world environment
- Assessing and applying the international experience to the Australian context

Peter Simpson, Managing Director,  
**BSS Corporate Psychology Services**

10.30 Morning Refreshments

## CASE STUDY

### Implementing a Fatigue Accident Causation Testing System (FACTS)

- Can the cost of fatigue related accidents be measured?
- Rio Tinto study of incidents and accidents
- Results and consequent changes
- Going forward

Ian Dunican, Principal Adviser - HSEC Projects, Global HSEC Practice, **Rio Tinto**

Mark Holmes, Chairman, **CIRCADIAN® AUSTRALIA**

## 11.40 Fatigue Management in Other Industries – Aviation and Transport

- Detecting and Measuring Fatigue
- Systems Identifying Fatigue Risk

For speaker updates visit

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12.20 Lunch

## LEGISLATION AND POLICY

### 1.20 Overview of the National Mine Safety Framework – Development of a nationally consistent legislative framework

Hon. Clive Brown, Chair,  
**National Mine Safety Framework Steering Group**

## 2.00 CASE STUDY

### The Coronial Inquest - Blackwater/Norwich Park Case

- Discuss the findings of the inquests as they relate to fatigue
- Look at the practical and evidential challenges involved in determining the extent to which fatigue or other compelling factors such as weather, road design or inattention were causal factors in the two incidents
- The sufficiency of the existing legal/compliance framework to regulate the risk of fatigue

Matthew Smith, Partner, **Sparke Helmore Lawyers**

2.40 Closing Remarks from Chair

3.00 Afternoon Refreshments and Close of Conference

## Pre-Conference Workshop Wednesday 28th September 2011

1.30 – 5.00

### A Practical Approach to Developing and Implementing a Fatigue Risk Management System in Mining Operations

There is no one-size-fits-all Fatigue Risk Management System (FRMS) - the 'best solution' FRMS will depend on the organisation's level of maturity with respect to safety and fatigue management. This workshop will guide participants through the general process of building an FRMS for mining operations, and will explore the process of achieving compliance and going beyond it with formalised fatigue risk management. Topics to be covered include:

- Defining fatigue as a state of impairment in the mining operational context
- Establishing the current and target levels of operational FRMS maturity
- Identifying and prioritising highest priority FRMS gaps
- A three-pillared approach to building an effective FRMS:
  - Personal / individual responsibility
  - Collective / organisational responsibility
  - Systems and assurance
- Minimum and advisable guidelines for elements in an FRMS, with consideration of fatigue risk management maturity

Paula Mitchell, Ph.D., MAPS, Senior Consultant,  
**Integrated Safety Support**

## Sponsorship & Exhibition Opportunities

If your organisation has the capabilities to assist in fatigue management strategy find out how you can profile and communicate to a relevant and targeted audience.

Showcase your company to all your industry peers through sponsorship and a boutique trade show, please contact:

**Shreya Joshi on +61 (2) 9080 4346 or  
email [Shreya.joshi@informa.com.au](mailto:Shreya.joshi@informa.com.au)**

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## Upcoming Events

### Bowen Basin Coal & Energy Conference

8-9 August 2011 | Mackay Entertainment & Convention Centre  
[www.informa.com.au/bowenbasin](http://www.informa.com.au/bowenbasin)

### NSW Basin Coal & Energy Conference

22-23 September 2011 | Crowne Plaza Newcastle  
[www.informa.com.au/nswcoal](http://www.informa.com.au/nswcoal)

### Galilee Basin Coal & Energy Conference

22-23 November 2011 | Stamford Plaza Hotel, Brisbane  
[www.informa.com.au/galileebasin](http://www.informa.com.au/galileebasin)

### CSG & LNG Conference

30 November – 1 December 2011 | Sofitel, Brisbane

Please visit the website for regular updates and changes to the program. Be kept in the loop with this event via LinkedIn, Twitter, YouTube and our Blog. Full details at [www.informa.com.au/fatigue-in-resources](http://www.informa.com.au/fatigue-in-resources)

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This timely conference will cover the existing and upcoming regulations and frameworks surrounding fatigue management and shift work, responsibilities of mining companies and employees, as well as key challenges and issues that arise throughout the industry. Featuring insightful case studies from Rio Tinto, the Blackwater/Norwich Park Case, international perspective on implementing a fatigue management program, and much more...

### Conference Venue

#### Stamford Plaza Brisbane Hotel

Cnr Edward & Margaret Streets, Brisbane, QLD 4000, Australia

Phone: (07) 3221 1999

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