PRESENTATIONS FROM:

Joe Mammen, Manager Technical Services, Appin Colliery, South32 Illawarra Coal

Kurt Bereza, Health and Safety Specialist, Wambo Coal

Jim Narbutas, Superintendent Gas Drainage, Appin Colliery, South32 Illawarra Coal

Professor David Cliff, Professor of Risk and Knowledge Transfer, Sustainable Minerals Institute, University of Queensland

Lee Davis, Product Director Longwall Automation & Tec, Komatsu Mining

Clive Hanrahan, Operations Manager – Mine Inertisation Unit, Queensland Mines Rescue Service

Wayne Green, General Manager Mines Rescue, Regulation and Compliance, Coal Services

Dr James Stevenson, Senior Director, Global Coal, IHS Markit

David Sykes, Executive General Manager Strategy and Growth, Mastermyne

Mac Powolny, General Manager, Nautitech Mining Systems

Ray Smith, Operations Manager – Underground Training, Queensland Mines Rescue Service

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HUNTER VALLEY COAL REPORT

<table>
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<tr>
<th>Time</th>
<th>Session/Activity</th>
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<tr>
<td>8:20</td>
<td>Morning Coffee &amp; Registration</td>
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<tr>
<td>9:10</td>
<td>Opening remarks from the Chair</td>
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| 9:20  | Domestic & International Coal Markets Outlook  
Dr James Stevenson, Senior Director, Global Coal, IHS Markit |
| 9:50  | Insights from Komatsu  
— Mines around the World are continually looking to the OEM’s, Technology houses and Academia to solve complex but interlinked safety and production issues and in some cases partnering up to achieve these goals  
— Removal of operators from a longwall face for all required operations is quite a way off. We can mine remotely but exceptions to smooth autonomous operation will always be present such as cavities, faults, gas or other conundrums that mother nature throws at us from time to time. OEM’s need to be moving into this complex space now that remote mining is a reality  
— As longwall systems become more advanced, there is also a need to be upskilling “supervisory oversight” to keep pace. Personnel who need to maintain the equipment will visit the longwall system less frequently creating a number of other hazards that should be factored into the design.  
— We shall look at what OEM’s are exploring in the R&D space that directly feeds into the need for increased safety, increases in production and lowering of costs in the mining operation.  
Lee Davis, Product Director Longwall Automation & Tec, Komatsu Mining |
| 10:20 | Facing the challenges of improving health and safety in the Australian mining industry  
The Australian mining industry has an enviable health and safety performance, how can we maintain and improve upon this? Some key challenges include:  
— Appropriate introduction of new technology  
— Maintaining site and corporate knowledge – lack of experience in adversity can lead to underestimation of the risk  
— Ensuring the inclusion of and ownership of health and safety by contractors, sub-contractors and labour hire  
— Separating controls from paperwork  
— Maintaining the vigilance when things are going well  
Professor David Cliff, Professor of Risk and Knowledge Transfer, University of Queensland |
| 12:00 | Coal Rescue – From yesterday to tomorrow  
A deep look at the history of coal mine rescue services, where we stand now, and what its future may look like including how the brigadesman’s training, technology and capabilities have changed over the years, and how increasing autonomous and remote operations will shape future training and capabilities.  
Wayne Green, General Manager Mines Rescue, Regulation and Compliance, Coal Services |
| 12:30 | CASE STUDY  
Underground fire safety and mine inertisation  
— Remote fire-fighting of Longwall fire using Gag Unit  
— The re-entry process  
Clive Hanrahan, Operations Manager – Mine Inertisation Unit, Queensland Mines Rescue Service  
Ray Smith, Operations Manager – Underground Training, Queensland Mines Rescue Service |
| 1:10  | Lunch and networking break |
| 2:10  | Underground Electrical Safety Session  
For programme updates visit our website: www.informa.com.au/Longwall2019 |
| 2:40  | CASE STUDY  
Leading Australian Longwall Mine  
For programme updates visit our website: www.informa.com.au/Longwall2019 |
| 3:20  | Networking and refreshment break |
| 3:50  | TECHNOLOGY SHOWCASE  
Nautitech  
Mac Powolny, General Manager, Nautitech Mining Systems |
| 4:10  | Mechanical Insights Session  
For programme updates visit our website: www.informa.com.au/Longwall2019 |
| 4:40  | Closing remarks from the Chair |
| 5:00  | CLOSING | End of Conference Day One and Networking Drinks |
| 6:10  | Networking Drinks Conclude & Buses Depart |
| 6:30  | CONFERENCE DINNER |

**Longwall Conference**  
Wednesday 30 October 2019  

**Blaxland Inn**  
2198 Broke Rd, Pokolbin NSW 2320  

**REGISTER NOW**  
Longwall Conference
Thursday 31 October 2019

8:30  Breakfast & Registration

9:10  OPENING | Opening remarks from the Chair

9:20  Mastermyne’s Safety Journey
      David Sykes, Executive General Manager, Growth and Strategy, Mastermyne

9:50  CSIRO
      Dr Jonathon Ralston, Integrated Mining Team Leader, CSIRO Energy

10:20 Networking and refreshment break

10:50  CASE STUDY
       Gas Management Innovations at Appin Colliery
       Joe Mammen, Manager Technical Services, Appin Colliery, South32 Illawarra Coal
       Jim Narbutas, Superintendent Gas Drainage, South32 Illawarra Coal

11:30  CASE STUDY
       Risk Mitigation through Automation at Metropolitan
       Senior Operator, Metropolitan Colliery, Peabody Energy (Invited)

12:10  PANEL SESSION
       Recruitment & Remuneration
       A roundtable discussion on the state of recruitment and skills demand in the underground coal sector and the wider Australian resources industry. Commentary will include a discussion on remuneration packages – with some positions seeing wage inflation greater than during the mining boom – the impact of the east-coast infrastructure boom and how this may have sapped already strained skill pools, where we are seeing the most demand come from, and how we can expect this atmosphere to shape the few years in underground coal recruiting.

       For programme updates visit our website: www.informa.com.au/Longwall2019

12:50  Closing remarks from the Chair

1:00    Lunch and networking break

2:00    CLOSING | End of Conference

"Australia has delivered a record full-year trade surplus of $49.9b off the back of impressive results from the nation’s resources sector, including coal exports of $69b."
Australian Mining. Aug 8. 2019

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<tr>
<td>Two day conference</td>
<td>$2,895.00</td>
<td>$289.50</td>
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<td>Longwall Miner Rate*</td>
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<td>$169.50</td>
<td>$1,864.50</td>
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*Special Longwall Miner rate available only for representatives from mining companies from their underground operations (this does not include contractors or suppliers)

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