NSW MINING

HEALTH, SAFETY, ENVIRONMENT & COMMUNITY AWARDS 2022

Monday 25 July 2022
Crowne Plaza Hunter Valley

YANCOAL
兖煤澳大利亚有限公司

SPONSORS

The NSW Minerals Council is very grateful to have the support of some fantastic businesses that have continued to get behind this event and these awards, even after interruptions from ongoing COVID-19 restrictions.

So we thank all of our sponsors, especially our Conference and Awards Dinner Platinum Sponsors Glencore and Yancoal for their continued support and commitment to leading practice in HSEC.

GLENCORE

Glencore is one of the world's largest and most diverse natural resource companies and a long-term supporter of this event.

They've been in business in Australia for 20 years and employ around 18,000 people across coal, copper, nickel, zinc, oil and agriculture businesses.

Glencore operates 17 coal mining operations across NSW and Queensland and has a strong focus on safety, environmental performance and making a positive contribution to the communities within the regions where they operate.

We thank Glencore for their continued support as presenting partner of the NSW Mining HSEC Conference and for the leadership role they play in its development.

SPONSORS

Yancoal is a leading low-cost Australian coal producer, exporting a mix of premium thermal, semi-soft coking and PCI coals.

Since 2004, Yancoal has generated over $10 billion in Foreign Direct Investment (FDI) for Australia and now owns, operates or participates in nine producing coal mines across NSW, Queensland and Western Australia. These operations support nearly 4,500 full time jobs, and in 2021 generated $667 million in government contributions and created an overall value-added impact of $8.3 billion for the Australian economy.

Yancoal has a diverse range of customers. In 2021, Yancoal exported Australian coal to 19 countries and continues to play a key role in delivering economic growth and improved quality of life, especially in Asia.

Yancoal is a public company, listed on both the Australian Securities Exchange and the Stock Exchange of Hong Kong.

HEALTH, SAFETY, ENVIRONMENT & COMMUNITY CONFERENCE 2022

WELCOME BACK

After more than two years since our last conference, it's great to get back together to catch up with industry colleagues and celebrate excellence, innovation and leading practice in health and safety performance, environmental management and community engagement.

Awards will be given in four categories:

- Health excellence
- Safety excellence
- Environmental excellence
- Community excellence

Take lots of photos and videos at the event and share them on socials.

Don't forget to tag us **@miningnsw** on Instagram and use the hashtag **#nswmining** to share positive stories with colleagues, friends and family.

MASTER OF CEREMONIES

Anthony “Lehmo” Lehmann

Anthony “Lehmo” Lehmann has been one of Australia’s most loved comedians for the last 20 years.

He is best known for his 8 years as co-host of The Project, 13 years as co-host of the AFL comedy panel show Before The Game – both on Network 10 and his brilliant performance as Jim on the award winning ABC series Utopia. His TV credits also include have You Been Paying Attention?, The Front Bar, Montreal Just For Laughs Festival, Hughesy We Have A Problem and many many more.

Lehmo has also been a fixture on Australian radio including lengthy stints on Triple M, Gold 104.3 (where he took the breakfast show to number 1) and he is currently co-host of the SAFM breakfast show in Adelaide.

Lehmo is also known as “The Combat Comic” having completed seven ‘tours of duty’ performing comedy for our troops in Afghanistan, Iraq, UAE, Egypt, Kuwait, Qatar, naval ships around the world and East Timor. From army bases in the Middle East to comedy stages through the UK, USA, Asia and Australia Lehmo has done it all, including holding the Guinness World record for most jokes told in an hour.

Lehmo is professional, funny, entertaining and engaging.
That’s Lehmo.

A MESSAGE FROM NSW MINERALS COUNCIL CEO

Welcome to the 2022 NSW Mining HSEC Awards Dinner.

It's been over two years since we were last able to gather here in person. It feels like such a long time since then and it's great to be back together again.

I thank you all for what you've done since the pandemic began to help keep our mining communities healthy and safe. By keeping our mines operating you are also helping to drive the state's economic recovery.

Being here together tonight is a really strong demonstration of a resilient NSW mining industry, committed to excellence and continuous improvement, even during challenging times.

On behalf of the NSW Minerals Council, I congratulate this year's finalists in our highly regarded Health, Safety, Environment and Community Awards.

There were so many strong entries this year and our finalists are all of a very high calibre.

We are proud to recognise all of the finalists for their innovation and excellence in improving workers health, mine safety initiatives, environmental sustainability and performance, and outstanding community engagement.

Stephen Galilee
Chief Executive Officer

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ACKNOWLEDGEMENTS

Thank you to everyone who entered this year's HSEC Awards. We want to recognise the innovative spirit and commitment to excellence of all of this year's entrants across four categories.

Health Excellence

BHP
Proactive through Pandemic

Glencore
Workshop Noise Monitoring System

Hunter Valley Operations
Electrical Cabinet Dust Extraction System Improvement
Finalist

Newcrest Mining
Take the First Step

The Bloomfield Group
MY Mindset:
How an innovative yet simple solution put mental health on top of the agenda
Finalist

ACKNOWLEDGEMENTS

Safety Excellence

Centennial, Myuna
Myuna End Cap Lifting device "Crab Trap"
Highly Commended

Centennial, Springvale
SPRINGVALE BOLT

Evolution Mining
Cowal Gold Operation
Contact cards safety

Glencore
Dust Extraction System aka
Mr Snuffleupagus
Finalist

Glencore, Bulga Open Cut
Bulga Drill Windrow Detection System
Finalist

Glencore, Bulga Open Cut
Dozer Tyne Lifting Jig

Glencore, Liddell Coal Operations
Level 1 Risk Assessment Initiative
Liddell Coal Operations

Glencore, Ulan West Underground
Ulan West Single Access Escape Strategy

Glencore, Ulan West Underground
Safer Roof Fall Recovery Outcomes

Idemitsu, Boggabri Coal Operations
Boggabri Coal Geotechnical
Hazard Management

Newcrest Mining
Safety Innovation – 793 Automated
Handrail System
Finalist

South32
Automation for safer practices

South32
Supporting our people

Yancoal
Production Drill Spanner

Yancoal
Blue Clearance Lights on Haul Trucks

Yancoal
Digital Learning and Worker
Compliance System

ACKNOWLEDGEMENTS

Environmental Excellence

Evolution Mining
Evolution Mining ALO Program

Glencore, Mangoola Coal
Boosting biodiversity – integrating targeted flora translocations in mine rehabilitation
Finalist

MACH Energy Australia
Mount Pleasant Operation delivers industry-leading rehabilitation

South 32
Environmental Monitoring

The Bloomfield Group
Rix's Creek Mine proactive and real-time noise monitoring in a complex noise environment
Highly Commended

Yancoal
Developing an effective noisy miner management program to benefit critically endangered regent honeyeaters
Finalist

Community Excellence

BHP
Leadership in a time of community crisis

BHP
Haul truck-training program for drought affected farmers

Evolution Mining
Revival of the West Wyalong Advocate Newspaper
Finalist

Idemitsu, Boggabri Coal Operations
Boggabri Community Early Learning Facility (ELF)

MACH Energy Australia
Aboriginal Oral History Project – In Our Own Words

Newcrest Mining
Cadia Valley Operations proactive response to COVID-19 in the local community

South 32
Community Excellence during COVID-19

Whitehaven Coal
Encouraging participation in the planning process

Yancoal
Stratford Coal – Education Support Fund
Finalist

THE Bloomfield GROUP

WE CARE. WE DELIVER.

The Bloomfield Group

MY Mindset: How an innovative yet simple solution put mental health on top of the agenda

In 2019, a Critical Hazard Workshop involving input from over 400 Bloomfield employees highlighted poor mental health and worker distraction both present a significant risk of fatality across the business.

Bloomfield deployed a simple yet highly effective mechanism to promote mental health, increase awareness of mental health issues, and build a connection between workers and mental health support professionals.

The MY Mindset program commenced with the adoption of the well-known model of a periodic medical. However, instead of a check predominantly focused on physical health, a MY Mindset bus visited every site and gave every employee a 20-minute one-on-one dedicated mental health awareness session with a member of the business' Employee Assistance Program (EAP) team.

The resulting uptake was high with 96 percent of the workforce participating. It broke down barriers and increased the likelihood of workers accessing mental health support when they needed it. A 54 percent increase in the level of uptake of the company's EAP service followed. What was once a taboo topic was now being spoken about openly as workers began talking about their mental health with colleagues.

HUNTER VALLEY OPERATIONS

Hunter Valley Operations

Electrical cabinet dust extraction system improvement

Historically, the removal of dust from electrical cabinets involved a maintainer blowing out truck cabinets with compressed air. This results in a lot of disturbed dust and health exposure concerns for hazardous airborne contaminants such as crystalline silica and respirable coal dust.

Hunter Valley Operations collaborated with Austindo Consulting Services and have developed a clever engineering solution. The new dust extraction system utilises specially designed custom-made panels which turn electrical cabinets on HVO's haul truck fleet into an enclosed cabinet with a high flow extraction connection.

Maintenance workers are able to use conventional compressed air methods to remove the dust from these enclosed cabinets. The dust is captured through a three-stage cleansing system, then deposited into a sealed collection bag.

Post-implementation hygiene dust sampling indicates that the respirable crystalline silica and respirable coal dust exposure to the worker is reduced to less than 5 percent of the occupational exposure limit.

GLENCORE

Glencore, Bulga Open Cut

Drill windrow detection system

In June 2018, Bulga Open Cut experienced a High Potential Risk Incident when a drill rig climbed up a windrow on the pattern it was drilling and bellied out. The drill rig ended in a position with one track hanging over the high wall, with a 50m drop below. Had the drill rig fallen over the edge, it would have resulted in a fatality.

Following this incident, Bulga Open Cut designed and developed an engineering solution that involves wands attached to switches that hang down on each corner of the drill. When moved in any direction, they trigger the fail-safe proximity switch linked to the drill's emergency stop circuit.

This solution moves the control to the engineering level on the 'hierarchy of control' compared to previous controls, which were administrative and subject to human error.

This has proved an extremely effective safety innovation with strong interest amongst regulators and other mine operators. And the new drill windrow detection system has been installed on all drill rigs across Glencore's open-cut mines in Australia.

NEWCREST MINING LIMITED
CADIA

Newcrest Mining, Cadia Valley Operations

793C Automated Handrail System

Cadia Valley Operations maintains a fleet of 793C Haul Trucks. However, during routine servicing and breakdowns, team members are required to access the rear section of the haul truck with no permanent fit-for-purpose working at heights controls installed.

Cadia Valley Operations developed a purpose-built automatic handrail system that eliminates the exposure to fall from heights. Previously, team members were required to manually install and uninstall handrails to the rear frame using the overhead crane while connected to the space cube with a safety harness.

This new system eliminates the major hazards of fall from heights, falling objects and lifting operations (suspended loads). The system is simple and easy to use; with the press of the deploy button, the handrail system stands up and locks into position in 20 seconds.

Since installing the automated handrail system, there have not been any incidents relating to workers exposed to a fall from heights whilst working on a 793C haul truck.

GLENCORE

Glencore, Ulan Underground

Dust extraction system aka Mr Snuffleupagus

The Ulan Underground dust extraction system, also known as Mr Snuffleupagus, provides a safe working environment by removing airborne dust from areas where cementitious products are mixed and applied.

The idea was generated from the frontline where employees were applying shotcrete and plaster products in low ventilation areas. Through consultation between the workforce, the Ventilation Officer and content experts, the dust extraction system was designed with the intention to extract dust at the source.

The system has no moving parts and uses a Clarke Airflow 100 venturi air mover to extract the dust generated by equipment used to mix and apply cementitious products. This simple, innovative idea can be easily replicated at a low cost with huge health benefits.

Trials have shown that when using Mr Snuffleupagus, the respirable dust level is considerably reduced below workplace exposure standards.

CENTENNIAL

Centennial, Myuna Mine
End cap lifting device "Crab Trap"
Highly Commended

In April 2020, the NSW Resources Regulator issued a Safety Alert after a worker was sucked into the ventilation tube he was working on. The pressure exerted on the worker's neck was enough for him to lose consciousness.

Using a top-down approach and review of the injury type and frequency rates around vent tubes, Myuna Mine found other risks included being struck by a falling vent tube, sprains and strains from lifting and fibreglass splinters.

In consultation with the workforce, Myuna Mine developed a Ventilation Tube End Cap (Crab Trap) which allows continuous flow of air into the tubes regardless of whether the operator comes into contact with the suction end of the tube. This eliminates the risk of a worker being sucked into the ventilation tube and also improves the ergonomics of lifting tubes in place because it can be done safely from the end of the tube.

As well as eliminating these risks, there has also been a reduction in injuries associated with splinters and shoulder injuries.

Yancoal Australia, Mount Thorley Warkworth

Developing an effective noisy miner management program to benefit critically endangered regent honeyeaters

In 2016, regent honeyeaters were discovered nesting on Mount Thorley Warkworth's biodiversity offset property adjacent to the Goulburn River National Park.

The regent honeyeater is a critically endangered songbird with a current population of approximately 300 individuals. A key threat to the regent honeyeater is the noisy miner, a pest bird that chases honeyeaters from their breeding grounds and destroys nests.

In collaboration with the Australian National University and Australian Vertebrate Pest Management, Mount Thorley Warkworth has implemented an experimental noisy miner management program. Together they have effectively cleared over 785 hectares of regent honeyeater breeding habitat of noisy miners, allowing regent honeyeaters and many other threatened bird species to breed without the threat of noisy miners.

The collaborative project has been the most successful noisy miner management program in Australia, leading to two peer-reviewed scientific publications and establishing a framework for how and where to manage noisy miners in other biodiversity hotspots.

GLENCORE

Glencore, Mangoola Open Cut

Boosting biodiversity – integrating targeted flora translocations in mine rehabilitation

Starting out as a project approval condition to translocate 1,000 plants, this program has grown into the largest-scale orchid translocation project in Australia. More than 3,500 orchids have been progressively relocated along with other slow-growing and recalcitrant flora.

Orchids and other difficult plant species are salvaged from pre-mined land and were initially transferred to Mangoola's biodiversity offset areas. Since 2015 they have also been successfully translocated to the mine's rehabilitation areas.

Intensive monitoring programs have shown that the translocation can successfully re-establish orchids and other plant species. And the project has significantly progressed the understanding of translocation.

Mangoola has been able to apply its knowledge to widen the benefits of the program. In collaboration with the NSW Government's 'Saving Our Species' program, the mine has translocated 250 Denman Pomaderris shrubs, propagated by the Australian National Botanical Gardens, to the mine's offset and rehabilitation areas.

WE CARE. WE DELIVER.

The Bloomfield Group

Rix's Creek Mine proactive and real-time noise monitoring in a complex noise environment

Highly Commended

The Bloomfield Group's Rix's Creek Mine is the closest mine to the community of Singleton.

Bloomfield has pioneered a proactive noise management framework that combines boots on the ground with the latest real-time monitoring science to manage a highly complex noise environment. The framework includes systems for predicting where noise is likely to be enhanced both within the mine and in the community.

Rix's Creek environmental officers, who have undertaken a specially designed noise monitoring competency, are stationed in the community each day at the points where noise is predicted to be enhanced.

Through the pre-emptive modelling to check compliance with noise limits and real-time operational adjustments, the framework has supported the mine to consistently meet its production targets, reduce noise complaints and helped maintain the mine's place as a good neighbour in the community.

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Yancoal

Stratford Coal – Education Support Fund

The Stratford Coal Education Support Fund was established in 1997 to help secure skilled people for jobs in the region and to retain young people in the community when they complete secondary school.

Working with Gloucester Shire Council, the local business chamber, high school and community, the Fund was established with an independent committee to oversee local investments. Over its life, the Fund has grown in scope and now provides support for University and TAFE students and community apprenticeships.

More than $770,000 has been contributed through the Fund to support local students and businesses since its inception. The Fund has made a genuine difference to the lives of 200 tertiary students, 135 apprentices / TAFE students and 55 businesses.

The Fund has benefited Stratford Coal and the local business community including suppliers, providing skilled local workers. In addition, the broader community has benefited from local employment opportunities and a stronger and more resilient local community.

COMMUNITY EXCELLENCE

FINALISTS
2022 NSW MINING HSEC AWARDS

Sponsored by South32

Evolution Mining

Revival of the West Wyalong Advocate Newspaper

The West Wyalong Advocate has been a vital voice for the community for more than 125 years. But when the newspaper announced it would close its doors in December 2020, it was a devastating blow for the district which lost a key custodian of the town's history and community conversation.

For Evolution Mining's Cowal Gold Operations, closure meant losing its primary means of communication with the local community about developments, initiatives and jobs.

Rather than witness the extinction of local news, Cowal Gold Operations consulted with owners, community stakeholders and the Bland Shire Council to find a way to help revive the paper, without compromising its independence.

The result is the West Wyalong Advocate Foundation, which is a not-for-profit organisation and has an independent Board of Directors. Most of the paper's staff have been re-employed and The West Wyalong Advocate was again published on the 14th of May 2021 after a four month hiatus.

OUR JUDGES

We thank our judging panels for their time and expertise.

John Anger

Director of Health, Safety, Environment and Closed Operations, Peabody Australia

Wayne Green

General Manager Mines Rescue, Regulation & Compliance, Coal Services

Dr Sheridan Coakes

National Social Practice Lead, Umwelt

Mark Ihlein

Executive Manager – Projects, Singleton Council

Megan Davison

Principal Adviser – Safety and Health, Minerals Council of Australia

Dr Trent Watson

Chief Executive Officer, Ethos Health

Adam Gilligan

Director Regulatory Operations, NSW Environment Protection Authority

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Platinum

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Gold

CENTENNIAL

BHP

LDO Group EMPOWERING THE FUTURE

WHITEHAVEN COAL

Silver

Lawyers McCullough Robertson

KOMATSU Creating value together

REGIS RESOURCES LTD

CS Coal Services

MACHEnergy Mount Pleasant Operation

THE Bloomfield GROUP WE CARE. WE DELIVER.

idemitsu

EMM creating opportunities

mine super

umwelt

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DUST-A-SIDE AUSTRALIA

Bronze

Evolution MINING

SOUTH32

THIESS

Peabody

MENU

Canapes

King Prawn and Preserved Lemon Crostini

Heirloom Baby Veg & Buffalo Mozzarella Skewers

Pumpkin, Pine Nut & Basil Arancini

Char Sui Pork Puff

Entree

Caramelised Onion Tart, Goats Fetta with Vine Ripened Cherry Tomato Salsa

Seared Lamb Loin with White Bean Ragout & Pea Puree

Main Course

Chicken Involtini, Proscuitto, Baby Potatoes, Sauce Romesco

Australian Beef Tenderloin with Fondant Potato & Spring Onion

Dessert

Coffee Stone with Chocolate Soil

Meringue with Mascerated Berries

Beverages

Sydney Brewery Lager

Sydney Brewery Pale Ale

James Boags Premium Light

McGuigan Black Label NV Sparkling

McGuigan Cellar Select Pinot Grigio

Capercaillie Regional Shiraz

A selection of soft drinks and juices

DT024
Cadia Valley Operations
793C
CAT 793C

STRATFORDCOAL

STRATFORDCOAL

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GLENCORE

GLENCORE

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