



2018 **CCAA**  
**INNOVATION**  
**AWARDS**

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Welcome to the 2018 CCAA Innovation Awards.

At events like this, right around the country, the CCAA Innovation Awards will again recognise the industry's achievements in improving Environmental Management, Workplace Health and Safety and Community engagement in the cement, concrete and quarrying industries.

I hope that you will agree that these Awards are evidence that our industry believes that showcasing and rewarding innovative solutions to the challenges of managing environmental, health and safety performance, and in engaging positively and purposefully with the communities we operate in, is of the utmost importance.

We hope that through the sharing of these ideas, the industry overall will become safer, cleaner and more sustainable.

Importantly, the winners of tonight's Innovation Awards will be judged against all of the State Winners from 2017 and 2018.

The National Awards will be hosted at a Gala Dinner at the industry's premier event, CMIC18 later this year in Sydney.

On behalf of CCAA, I hope that you will enjoy this evening and take the time to reflect on tonight's award entries and winners and consider how they might assist you in improving your business performance.

Please join me in congratulating all of tonight's entrants and Award winners.



**KEN SLATTERY**  
Chief Executive Officer  
Cement Concrete & Aggregates Australia

Thank you all for the opportunity to join you at the 2018 Cement Concrete and Aggregates Australia Innovation Awards.

It's a pleasure to support the extractives sector in helping Victoria grow by recognising and encouraging best practice in the extractives sector at these awards.

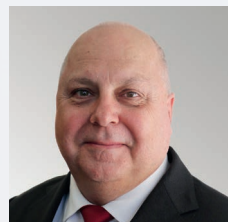
Helping Victoria Grow is the name of the strategy I released on behalf of the Victorian Government this year to facilitate and support the extractives sector in responding to the recent surge in demand for its products. I appreciate the enthusiastic response of the industry to the demands of this Government's record infrastructure investment!

The work you undertake is vital to the continued economic wellbeing of the State of Victoria. Community engagement gives you the social licence not only to operate but to thrive.

As sponsor of the Community Leadership Award, the Victorian Government recognises the nominees as exemplars for the sector and applauds the winner.

We need to keep the cost of housing and infrastructure down. We need to build a Victoria that works for all Victorians. By helping each other we help create thousands of jobs for Victorians, further grow the sector and, in turn, our economy.

I look forward to the opportunity to continue supporting you as you help Victoria grow.



**TIM PALLAS MP**  
Treasurer of Victoria &  
Minister for Resources

**This award is for outstanding achievement in developing and successfully applying a new initiative or an original solution in one or more aspects of environmental management at a concrete, extractive, or cement operation.**

**Entries for this award may include initiatives or programs for managing water, waste, energy, dust, noise, carbon off-sets, air quality or rehabilitation and flora and fauna protection.**

#### **BARRO GROUP**

##### **Werribee Concrete Drive-over Slumping Station**

A new drive through slump stand was designed and purpose built in-house with a steel grate over the waste settlement pit, stopping the cement water slurry coating the agitator tyres and being carried out onto the exit road and local roadways. The undercover Slumping Station is enclosed on two sides with precast concrete panels and is equipped with a permanent hoisting system capable of lifting the individual steel grates and moving them away from the settlement pit to allow front-end loader access to clear the pits.

#### **CEMENT AUSTRALIA PTY LTD**

##### **Recycling of Fire Fighting Foam to Cement Kiln Fuel**

This is an environmentally safe, sustainable and effective solution for the destruction of Aqueous Fire Fighting Foam. The waste foam is carefully transported to the Geocycle site in special containers and then blended with other waste products and converted into an alternative fuel. It is then shipped in ISO containers to the cement kiln for use as a fuel.

#### **FULTON HOGAN LTD**

##### **Tylden Quarry Creek Diversion**

The expansion of the Tylden Quarry required local creek and drainage lines to be diverted around the proposed pit. Working with regulators, the local catchment authorities, community groups and neighbours, the Work Plan Variation was approved and the creek was diverted successfully with minimal impact on the environment.

#### **HANSON AUSTRALIA PTY LTD**

##### **Werribee Quarry Water Bore Management System**

A real time water bore control and monitoring system was designed and installed to monitor a 100m deep bore. The real time reporting allows for immediate adaptive management of the ground water system.

**This award recognises excellence in developing and implementing an innovative solution to an identified health and safety issue.**

**Entries for this award may include a product solution, engineering innovation, a training program, an awareness raising activity or other risk control measures that reduce the risk of work-related injury and illness.**

### **BARRO GROUP**

#### **Metal Detect By-Pass Chute**

Tramp metal is removed automatically from the concrete recycling process, avoiding the issues of stopping the conveyor belt and manually removing the metal. It removes manual handling issues and increases productivity.

### **BORAL AUSTRALIA**

#### **Montrose Quarry Scaling Attachment**

The site engineered and manufactured a quick hitch attachment 'rock scaling' tool for the excavator which enables the operator to quickly scale any loose rock from the high faces that could not be accessed using traditional face loading tools.

### **BORAL GROUP**

#### **Poly Fibre Separation Centrifuge**

This in house engineered centrifuge automatically separates the poly fibres from the fibre reinforced concrete to enable fibre counts on fresh concrete, removing the labour intensive, manual handling issues of the previous "fishing out the fibres" process in 90 per cent less time.

### **HANSON AUSTRALIA PTY LTD**

#### **Driver's Code of Conduct**

A quarry driver's code of conduct is presented in clear and simple language. The driver commits to complying with the Code by signing the document. It also provides the driver with a concise take away document to retain in their vehicle for easy reference.

### **HOLCIM (AUSTRALIA) PTY LTD**

#### **Agitator Vehicle Dynamics & Driver Behaviour**

Field tests using the DECA concrete agitator fitted with outriggers to simulate rollover events were used to determine real live g-force limits to benchmark driver behaviour across the national fleet. This has been used to train, improve and monitor at risk drivers with greater accuracy.

### **HOLCIM (AUSTRALIA) PTY LTD**

#### **Health Promotion Program**

Holcim VIC/SA Aggregates business ran in-house health promotion campaigns linked to public health campaigns such as R U OK? Day, National Skin Cancer Awareness Week, Dry July, etc. This enables the health message delivered at work to align with promotional material that is on TV, in newspapers and on the radio which results in positive reinforcement of the health messages.

**BARRO GROUP**

**Power Line Warning Barrier**

A height barrier was installed at the Donnybrook Quarry to remove the risk of vehicles touching overhead power lines.

**BORAL AUSTRALIA**

**Coldsteam Quarry Pit Design Improvement**

Operational face heights were halved to reduce the exposure to the risk of engulfment from rock falls.

**BORAL AUSTRALIA**

**Deer Park Quarry Claw**

A modified hydraulic grab attachment was developed for the safe extraction of oversized rock causing a chamber blockage within a jaw crusher.

**BORAL AUSTRALIA**

**West Melbourne Concrete Plant Safety in Design**

The new Batch Plant was designed and constructed to provide safe traffic management for all traffic types and pedestrians.

**BORAL AUSTRALIA**

**Wollert Quarry Pedestrian Gates**

Gates, flashing lights and signs were installed at the pedestrian crossing at the main access road to ensure safe pedestrian access to the main site office from the visitor's car park.

**FULTON HOGAN LTD**

**Digital Pre-Start Meetings**

Pre-start safety meetings are now documented digitally via the use of an iPad and third party software. The operators sign the iPad form which is stored on an online database.

**FULTON HOGAN LTD**

**Tynong Quarry De-Dusting Booth**

A 'Bat Booth' de-dusting booth was installed and delivers a flow of controlled pressurised air to easily remove potentially hazardous dust from clothing.

**FULTON HOGAN LTD**

**Tynong Quarry Power Line Removal**

The high risk of electrocution from overhead power lines at the quarry entrance was eliminated by installing underground power cables.

**FULTON HOGAN LTD**

**Tynong Quarry Traffic Management Improvement**

The traffic management plan on site was improved by altering haul roads, changing the stockpile area, improving major intersections and implementing one way traffic flow.

**HANSON AUSTRALIA PTY LTD**

**Adjustable height sample splitter**

The sample splitter has been attached to an adjustable height trolley to allow the splitter to be used at the optimal working height to minimise manual handling - lifting, bending and carrying of 15 kg samples.

**HANSON AUSTRALIA PTY LTD**

**Truck Hand Signal Stickers**

These stickers are placed on the back of the agitator truck and display the six basic hand signals used to spot the truck, aiming to avoid confusion between the spotter and the truck driver.

**HANSON AUSTRALIA PTY LTD**

**High Risk Contractor Management Program**

Contractors must read and sign the yellow, water proof 'Work Pack' that is placed at the entry to a high risk job site. The Pack contains all the required safety information for that particular job.

**HANSON AUSTRALIA PTY LTD**

**I Care - A 21st Century Safety Solution**

I CARE is mobile friendly, web-based tool that is a one-stop-shop for reporting any hazard, risk observation or improvement relating to safety, quality, production, customers and the environment.

**HOLCIM (AUSTRALIA) PTY LTD**

**'I Could Have Saved A Life That Day' video**

The video was developed to help encourage Holcim personnel to "look out for each other" and support each other to operate safely. Over 90 per cent of personnel surveyed after watching the video indicated that it had increased the likelihood that they would intervene if they observed another person behaving unsafely.

This award recognises an exceptional contribution a CCAA member has made in enhancing the public perception and standing of the heavy construction materials industry.

For example, projects for this award category may include company initiatives and measures that better inform and educate the community; support local schools, community groups and sporting clubs; or improves site amenity for the local neighbourhood.

### **BORAL AUSTRALIA**

#### **West Melbourne Concrete Plant Stakeholder Engagement**

A comprehensive stakeholder engagement process was conducted during the construction of the West Melbourne Concrete Plant. The proximity of neighbours and businesses to the site meant that maintaining a social licence to operate for this vital plant needed proactive engagement for the site to be successful.

### **FULTON HOGAN LTD**

#### **Reporting Benefits**

Quarry personnel are encouraged to report all safety incidents, hazards, near misses and improvements and when the site reaches their agreed reporting target, a donation is made to a local charity. The quarry teams selected the local CFA, primary school and special needs school as their designated community organizations. When the reporting targets were met, a donation of \$2,000 was personally delivered to the charity by the Quarry Manager.

### **HANSON AUSTRALIA PTY LTD**

#### **Lysterfield Quarry Community Reference Group Newsletter**

With the assistance of Hanson, the Community Reference Group members wrote their own newsletter and distributed electronic and printed copies to nearby residents so that the community could hear from other community members directly and have a better understanding of the quarry, the site and its future potential.

### **HOLCIM (AUSTRALIA) PTY LTD**

#### **Breaking Down Language Barriers**

Pakenham Quarry induction packages were translated into 7 languages to suit the diverse nature of ex-bin drivers. Many drivers have English as their second language and this showed a commitment to working with, and recognition of the different cultures within the Quarry's community.

### **HOLCIM (AUSTRALIA) PTY LTD**

#### **Werribee River Annual River Clean up**

Werribee Quarry staff participated in the Werribee River Annual River Clean up and Community Tree Planting events that look after the environment and strengthen community relationships. In 2017 the clean-up day collected over two tonnes of rubbish including numerous shopping bags, bottles and even a motorbike.

### **BORAL AUSTRALIA**

#### **Coldstream Quarry Public Sculpture Project**

Boral is a major contributor to the Coldstream Melba Connection Project which is a community initiated project that aims to develop an iconic public sculpture that represents Coldstream's rich heritage.

