

# SAND & STONE

The official magazine of the CMPA

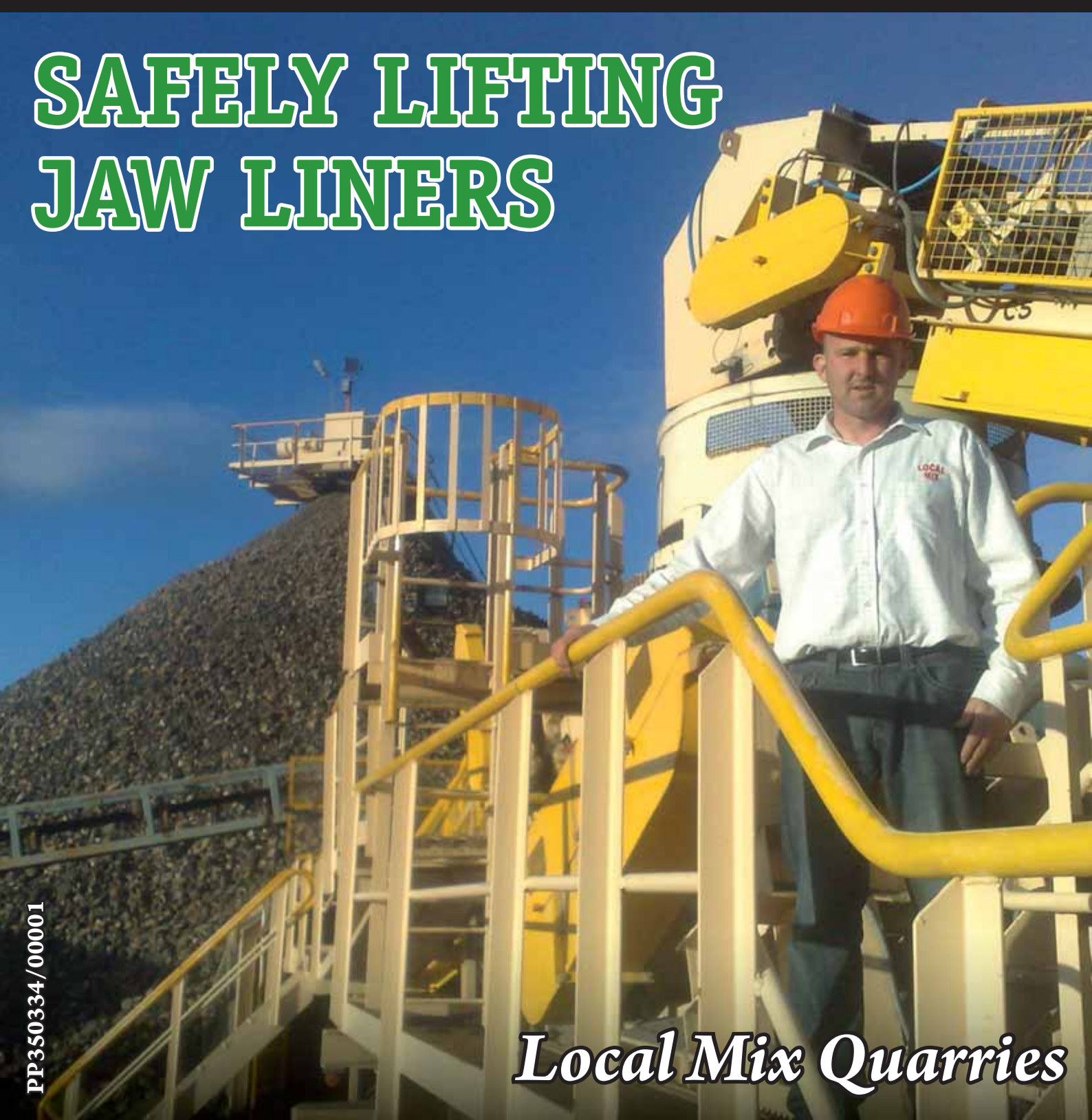
- HARMONISING OHS LAWS
- 2010 CMPA AGM & DINNER

- STAFF EDUCATION
- LIFTING JAW LINERS

ISSUE 52

Aug/Sept 2010

## SAFELY LIFTING JAW LINERS



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## A New Way Forward

CMPA's new Associate Chairperson, MARK THOMPSON touches on the role of the associate.

As the incoming Associate Chairperson it's certainly going to be a big pair of shoes to fill from our past Chairperson of five years and now Deputy Chairperson, David Batson.

I would like to personally thank David for his support and commitment to the CMPA during his time as Chairman; I look forward to working with him and the associate committee as we move forward.

I am the General Manager of Oli Vibrators Pty Ltd (Aust) part of the global Italian WAM Group of companies that specialise in equipment for bulk material handling. Oli Australia was established in 2004 and supplies a range of standard and heavy duty electric vibrators to the mining, extractive and associated industries. Oli Vibrators has become synonymous throughout the Australasian Extractive Industry for our price, reliability and overall service.

Whilst my training as an aircraft fitter and later with such companies as the Aeronautical Research Laboratories, Drager Australia, Cadbury Schweppes, WAM Australia and eleven years in marketing, has given me good grounding to manage a business.

I have also been a member of many industry associations, but never part of an association that has a passion to make sure its members are heard and represented like the CMPA.

As Chairperson of the Associate Committee I look forward to working together with our dedicated committee members to assist all of our associates gain the very best from the CMPA and to ensure that the members have quality products and services associated with the extractive industries throughout Victoria.

I think it is important that our members and associates understand the pivotal role of the associate and how we fit within any association, not just the CMPA.

It's equally important to recognise the contribution of the committees and the resources available to all members. Sponsoring workshops, annual dinners, placing advertorials, preparing interviews and profiles together with advertisements in *Sand & Stone* and the CMPA Associates Reference Manual are all ways to strengthen awareness and relationships with our customers. Being proactive in the market place and within the association increases our ability to ultimately sell our products. I encourage all our associates to consider advertising in these popular magazines and reference manuals which will provide you with exposure to not only your fellow members but the wider industry as well.

I look forward to working closely with the secretariat to assist our associates in gaining the best out of their membership and the opportunity to contribute to the enhancement of the CMPA. ■

CMPA 2010 Annual Dinner held at the RACV Club in Melbourne



## FUTURE DIRECTION OF INDUSTRY

Regulatory burdens are killing our industry by restricting entry and sterilising future resources.

It's time questions were asked.

Has there been a reduction in time for planning applications and Work Authorities to be approved? A reduction in the red tape burden that buries our sector? Is the financial security of our businesses stronger as a result of rehabilitation bonds?

Has Government "risk" associated with failed extractive operations escalated at the same rate as our bond levels? Do higher bonds actually remove the risk? Is the State being provided with an acceptable level of re-investment into our sector?

The reality is that if the answer is no to these questions, then our state construction material resources need a far greater commitment to be protected by Government.

While the industry willingly responds to ever-increasing demand to satisfy urban and regional development fostered by Government, conversely, either for mis-guided or more ominous reasons, Government blocks access to new operations.

This sterilisation of our resources will result in three outcomes; firstly, there will be business failures as a result of the above policies, secondly industry will have to significantly raise their prices to recover regulatory costs and thirdly the community will witness industries gradual decline in health and competition as product sources dry up.

Either way, it is the opinion of the association that this must not be allowed to happen.



# CMPA NEWS

By CMPA SECRETARIAT

CMPA Secretariat provides an update of the latest news and happenings.

## RECENT EVENTS

Garry Cranny met with Col Cameron from Wacky Entertainment on site at Yarra Valley Quarries to discuss the background of the CMPA and the quarry industry.

Secretariat met with Spence Herd regarding development of four new Shotfiring Checklists.

Ken Norris attended a VEAC Consultation Workshop in Traralgon to discuss issues raised in the discussion paper on the Remnant Native Vegetation Investigation.

Peter Day attended a meeting with VCEC to discuss issues regarding the Inquiry into Victoria's Regulatory Framework.

Peter Day met with Ron Kerr (Conundrum Holdings), Basil Natoli (Bell, Cochrane & Associates) and Danny Hopkins (Rocla Quarry Products) regarding CMPA's submission to VCEC - Inquiry into Victoria's Regulatory Framework.

A Management Committee Meeting was held in Kilmore.

### **New General Manager –**

The Management Committee recently approved the employment of Bruce McClure as General Manager for a 12 month period. Bruce will commence with the CMPA on the 4th October 2010.

A detailed story outlining Bruce McClure's employment history and professional background will follow in the next issue of *Sand & Stone*.

## VEAC – REMNANT NATIVE VEGETATION INVESTIGATION

The CMPA has provided comments to the Victorian Environmental Assessment Council on the discussion paper *Remnant Native Vegetation Investigation*.

The investigation's purpose is to consider how public land can contribute to 'sustainable landscapes' and identify opportunities for greater ecological linkages.

**The CMPA is very concerned with the application of native vegetation legislation as it imposes vast costs on the industry for no apparent benefit.**

These costs have been identified in work previously published by the Association, *An Unsustainable Future*, August 2009 and the wider impact of these controls along with other legislative measures imposed on the industry are currently being assessed and will be presented to Government in the near future.

Thank you to Ken Norris, Peter Day and other members who provided input into the CMPA comments.

## ASSOCIATE COMMITTEE

We have a new look Associate Committee for 2010/11, with Mark Thompson (Oli Vibrators) elected as the new Associate Chairperson and a few new faces added for the coming twelve months:

- David Batson (William Adams)
- Erik Birzulis (Landair Surveys)
- Steve Burgess (Hitachi)
- Michael Donnelly (Linx Finance)
- David Hazell (Onetrak)
- Sharon O'Donoghue (Landmark Contracting)
- Chris Prowse (CK Prowse & Associates)
- Frank Santoro (Orica)
- Craig Staggard (Terex Jaques)
- Paul Taylor (Super Signs)

## VCEC – INQUIRY INTO VICTORIA'S REGULATORY FRAMEWORK

The CMPA is currently preparing a submission for the Victorian Competition and Efficiency Commission for its *Inquiry into Victoria's Regulatory Framework*.

The issues of concern to the CMPA have been highlighted in work previously undertaken by the Association. These remain pertinent and will be reiterated in the submission.

In essence the concerns are:

- The escalating and often unnecessary costs of regulation of the industry. This puts huge pressures on every business and ultimately may push some to the wall through no fault of their own;
- **Restriction of access to land. This insidious regulatory action not only undermines the ongoing sustainability of the industry it has potentially serious repercussions for the economic well-being of the State.**

In addition to these issues it is proposed that the submission also highlights:

- The need to eliminate the 'one-size-fits-all' approach in the extractive industry legislation (aside from very small operations).
- Improved gate-keeping arrangements for new regulation and legislation.
- The Government's lack of commitment to regulatory reform.

Thank you to those members who have provided input in the preparation of the CMPA's submission.

*Further information regarding the above will be reported in future issues of Sand & Stone.*

## CMPA MEMBERSHIP

Our sincere thanks to all Members who have renewed their membership for the 2010/11 financial year – without your support the CMPA could not continue its valuable work.

It would be appreciated if all outstanding renewals could be completed by the end of October 2010.

## SHOTFIRER'S LICENSE RENEWALS

The CMPA has been communicating with WorkSafe Victoria regarding the slow process of Shotfirer's License Renewals.

To date we have received a license renewal status from WorkSafe for attendees of the CMPA Shotfirers Refresher Training and Assessments days held earlier in the year.

There are a number of attendees who are still yet to send in the necessary license renewal paperwork to WorkSafe.

If you are still awaiting renewal of your Shotfirer's license and would like to check the status of your application please contact WorkSafe Victoria on 1300 852 562.

For future reference, you are not able to renew your Shotfirers license more than two months prior to it expiring and you should not be sitting for your assessment more than six months prior to your license expiring as the results will not be valid.

## HELP REQUIRED

Do you know someone who is a good writer with a little bit of spare time who needs some extra cash?

The CMPA still requires someone with an understanding of how quarries operate to assist with the writing of the next series of Reference Manuals.

This would be a great part time job for a university student and a great opportunity to learn more about the industry.

*Please contact the Secretariat on phone 5781 0655 if you are interested in the role.*

## VARYING MINIMUM HOURS

VECCI has applied to have the minimum engagement terms in awards, including the Quarry Award, varied. At present, many awards prescribe a minimum engagement of two, three or four hours which, in effect, is the minimum payable on any one shift.

They are proposing that the awards concerned include a provision to allow individual negotiation in that the employee can initiate a reduction in the hours specific under the minimum engagement terms.

Before making this submission, VECCI is seeking examples on how the existing terms impact upon your business.

*For further information or to make comment, contact Alexandra Marriott on amarriott@vecci.org.au*

## NEW EXPLOSIVES CHECKLISTS

The Secretariat in consultation with CMPA members and WorkSafe Victoria are slowly working towards providing four new explosive checklists.

- Magazine Management Safety Checklist
- Explosive Stock Record Book
- Shotfirers Blast safety Checklist
- Shotfirers Blast Management Book

The checklists are currently in draft form, further reviews are taking place. The final versions will be available in the coming months.

## ANNUAL DINNER PHOTOS

Would you like a happy snap of you and your friends all dressed up for the Annual Dinner? Photos from the night are available to be downloaded free from [www.actionpix.com.au/CMPA02010](http://www.actionpix.com.au/CMPA02010). High resolution, printable versions of the photos can also be emailed to you.

*To arrange this, please contact the Secretariat with the photo reference number from the website.*

## REHABILITATION BONDS

At the recent Annual General Meeting, a number of Members raised concerns in relation to the rising level of rehabilitation bonds. The CMPA as a result has commenced a number of approaches with the goal of ultimately reducing the anxiety rehabilitation bonds place upon your business.

To best represent you, we need accurate and current information that only you will be able to access quickly. In particular, your assistance is necessary to answer the following questions:

- When was your bond last reviewed?
- What was the figure prior to the review?
- What was the initial figure proposed by the DPI?
- What was the final figure for which a bank guarantee was provided for?

Answers to these questions are required for every site that has been reviewed especially over the last three years. We do not need to know the WA number, and will not provide individual data to any external party.

The above data was sought via email and fax on Friday 10th September 2010. It's not too late to provide this valuable information. Please give the Secretariat a call 1300 267 222, to lodge your answers.

*Further information regarding the above will be reported in future issues of Sand & Stone.*

## BLAST MANAGEMENT WORKSHOP

A Blast Management Workshop will be held to look at the proposed changes to the Dangerous Goods (Explosives) Regulations 2011.

One of the proposed changes will be the requirement for blast management plans by shotfirers and the second is the establishment of exclusion zones when using blasting explosives.

It will be beneficial to owners and shotfirers to gain an understanding of the proposed changes and to provide their practical knowledge and considerations on the WorkSafe guidance material. This will help WorkSafe to make the necessary changes to the guides for the benefit of the industry.

The CMPA have developed four new explosive checklists and would like to take the opportunity to present them practically in a group forum before releasing them in the market place.

The workshop will include a presentation from WorkSafe.

**Date:** Thursday 21st October 2010

**Time:** 1.30pm – 4pm

**Place:** Quality Hotel  
265 Mickleham Rd  
Melbourne Airport Tullamarine

**Cost:** \$40 members,  
\$60 non members

**RSVP** Thursday 14th October 2010  
– get in early as numbers limited.



# NATIONAL HARMONISATION

TOM KERR of Conundrum Holding reports on a presentation by BARRY SHERRIFF of Norton Rose Australia during the Safety in Action trade show, 20-22 April 2010

A commitment by the Commonwealth, state and territory governments to the harmonisation of work health and safety laws in Australia will see the introduction of a model Work Health and Safety (WHS) Act on 1st January 2012. The model act will be supported by model WHS Regulations and Codes of Practice.

State and territory jurisdictions will adopt the model legislation by either replacing their current OHS Act with a new Act or amending their current OHS Act to align with the model WHS Act.

As the model Act has been largely based on existing legislation, and in particular the current Victorian OHS Act, most currently compliant OHS systems should go a long way to satisfy the new laws.

Significant changes to the current Victorian Act will be as follows:

- Emphasis on graduated enforcement but higher penalties
- Moving from employment as basis for duties, obligations & rights
- New positive duty of care for officers, with due diligence defined
- Broadened consultation obligations – vertical and horizontal
- Broadened union right of entry
- Greater protection against discrimination and coercion
- Easier modification of notices
- Increased powers of questioning and reduced rights of individuals

The main aims of the new legislation are to provide a clearer, easier to use document with less legal jargon.

The new legislation will see an increase in the maximum penalties for safety breaches, however the reforms are also aimed at driving better safety outcomes by imposing less fines and moving towards more graduated enforcements such as enforceable undertakings or compulsory spending on safety.

The terms employer/employee will no longer be used in workplace safety legislation, instead the following hierarchy shown in the table below will apply.

The aim of these definitions are to make clear that any business is responsible for the health and safety impacts of the work done for the business; the law will be about cause and effect, not legal titles.

The 'due diligence' duty of care for officer's means that they must take reasonable steps to:

- Understand the nature of operations and generally the hazards and risks associated with those operations,
- Have up-to-date knowledge of OHS laws & compliance requirements,
- Have a process for receiving, considering and timely response to information on incidents, hazards and risks,

PARTY	INCLUDES	DUTY OF CARE
Person conducting business or undertaking (PCBU)	Companies, partnerships and sole traders (the 'employer' under the current Act).	Reasonably practicable
Officers	As defined under s9 Corporations Law. Office bearers at the macro level, directors, CEO's, department heads.	Due diligence
Workers	Line managers, workers, contractors, sub-contractors (the 'employees' under the current Act).	Reasonable care
Others at the workplace	Volunteers, clients, landlords, regulators and visitors.	Reasonable care

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# OF OHS LAWS



Site Photo – Conundrum Holdings Pty Ltd's site Stawell Quarry

- Ensure appropriate resources and processes to enable:
  - Identification, elimination or control of OHS hazards & risks
  - Compliance with specific obligations (e.g. consultation, incident notification)
- Verify that risks and hazards are being appropriately controlled.

The model Act will also see the introduction of a requirement for horizontal consultation in addition to the current requirements for vertical consultation.

The idea behind this is to encourage discussion between people at all levels of business, not just a top down or bottom up approach.

The model WHS Act removes the right to silence to avoid self-incrimination when questioned by an inspector; however any information given can be requested not to be presented as evidence in court in case of self-incrimination. A lawyer should be engaged immediately in case of an incident to ensure an employer's/worker's full rights are known and upheld.

While the exact details of the model WHS Act are subject to review, the key principles have been agreed to. As contracts that will operate after the commencement of the new laws could be entered into now, it is important to ensure your systems will meet the requirements of the new laws. ■

For further information on the harmonisation of safety laws see [www.safeworkaustralia.gov.au](http://www.safeworkaustralia.gov.au)

For further information regarding the article contact Barry Sherriff from Norton Rose Australia. Phone: 03 8686 6918

## Extractive Industry

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# Safely Lifting Jaw Liners

Two quarries recently trialed alternative lifting methods for jaw faces without welding.

Following are reports from, BRIAN CALOVIC from Conundrum Holdings, LEW DILKES from Crushing Equipment, ROSS OUTEN and ANDREW BROCKMAN of Boral.

ON Thursday, January 22, 2009 at Boral Wollert sixteen site managers, specialist welders and associated consumable suppliers attended a meeting to discuss the current practices of welding lifting lugs to manganese jaw liners in detail and to explore possible ways forward. Those present had a wide range of skills in foundry works, welding, installing and utilising the wear parts. Between them, there was over three hundred years experience!

Initial meetings concentrated on:

- The review of existing welder qualifications and welding procedures to ensure the best outcome was achieved with the current practice using weld on lifting lugs.
- A review of existing cast-on lifting lug arrangements
- Explore new lifting arrangements that will meet all today legislative requirements and company expectations.

The industry recognises changing out jaw faces as being one of the highest risk tasks and the issues relating to lugs breaking off and slings falling off open cast-on hooks are well documented. The committee quickly directed their attention to new approaches that will eliminate the known hazards.

The result was a CMPA report on reducing the risk of welding lifting lugs and a trial to be commenced with an alternative lifting arrangement which removed the process of welding lugs altogether. Following is a report from two companies and their suppliers on trials conducted to date.

## Welded lugs to jaw liner



Jaw liner in place

## TRIAL 1 Conundrum Holdings Pty Ltd (Stawell Quarry) – Self-locking lifting device

*BRIAN CALOVIC reports on the trial carried out at the Stawell Quarry site.*

The current method for removal and installation has been to weld lugs to the jaw liners. This process can only be performed by qualified welders. Australian Standards AS 1554 part 1 SP provides a strict set of standards that welders must comply with to be considered sufficiently trained for the purposes of welding to manganese.

Industry is faced with the challenge of inconsistent manganese supply and casting quality. Issues such as unexpected elements being present within the metal are causing concerns for both the construction material business, the welders and the suppliers.

A 'Material Certificate' is an essential tool in assessing a wear part according to Quantec Solutions. It will identify the elements within the wear parts, and with an understanding of the envelope, can assist in identifying differences.

Physical casting faults such as air pockets, laminated metals and incorrect casts can often be hard to assess as the faults are often within the casting surface. This can also cause failure of lifting lugs even with the correct welding methods used.

Working together with Crushing Equipment we began our trial November 2009 by fitting a set of jaw liners to our primary crusher with two holes cast to suit the trial lifting devices supplied by Crushing Equipment.

The cast holes are slotted so the lifting device could be easily fitted by inserting it into the slot and turning it 90 degrees. The two lifting devices are locked together using a pinned cross bar. Once in place the chains are attached and the liner can be lifted into place.

The jaw liner was then secured in place with the liner holding bolts fitted. The removal of the lifting device was then to release the chains, unpin and remove the cross bar, rotate the device 90 degrees and remove.

The advantage of this device was not having any welding required through the procedure. Risks associated with welding lugs to manganese include:

- Metal composition and quality of casting
- Type and size of welding rod
- Welding method
- Reliance on welder having appropriate skills and experience
- Location of lugs and testing welds

Other advantages are:

- A simple method of lifting the liner
- Less time with no welding of lugs required
- Crane time on site is greatly reduced again reducing costs.

## A third chain used, in case of tool failure





Lifting device using a pinned cross bar

Removal of the liners was basically the reverse procedure of fitting them. We had used expander-foam in the holes during assembly to try to keep dirt out of the tool recess. This proved to work well as they did stay reasonably clean and we had no problems scraping them out and refitting the tool for removal.

As a safety measure for the trial, we welded a lug to the liner using a third chain just in case of tool failure.

We found the lifting device easy to use and had up to 4 tonnes of lift on the crane to break out the upper jaw liner. This has proven a successful trial that has removed the need for us to weld lugs to jaw liners and therefore along with risk assessments and safety analysis it has reduced the risk of the task.

We would like to acknowledge efforts made by Crushing Equipment, Trevor Box and Lew Dilkes in their efforts to develop a safer method.

We are continuing to work together to further improve the design.

## TRIAL 2 Boral Montrose – Bolt on lifting tabs with lifting rings

ANDREW BROCKMAN, a Maintenance Fitter at Boral, reports on the trial conducted on their site.

I have been involved in quarry maintenance for over 20 years. I am qualified as a boiler maker / welder and am responsible for the welding of lifting lugs onto manganese liners at our Boral Quarries in Melbourne.

Over the years, we have refined the method for making lugs and attaching them to manganese with the use of design engineered lugs and very strict welding procedures.

Despite this, we have never been able to make the task entirely safe. Varying metallurgical composition of the steel is a major concern. I have seen lugs torn out of the parent steel as a result and have also come across some very dubious casting with hollows below the surface of the steel which only become evident when you start welding.

### Jaw liner lifted into place



Lifting eye rotated into recess

Fortunately we have never had a major incident, but I have certainly heard of numerous cases of people in our industry being seriously injured as a result of lifting lug failures.

When the idea of developing lifting equipment for liners was suggested we jumped at the opportunity to be involved. We approached our trials differently, utilising Our Man Flynn. Thank you to Mike Flynn and his team who helped to incorporate a lifting method which did not rely on welding.

Early this year, we installed our first set of liners into the 60" x 48" jaw crusher at Montrose Quarry. The trial was very successful and our team was very relieved to finally have a far safer means of carrying out this task.

I hope that this is adopted across all quarries and for all machines – the sooner the better!

[This article is continued on page 13 of this edition of Sand & Stone](#)



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## LOCAL MIX QUARRIES

STEVEN RICHARDSON, Quarry Manager of Local Mix Quarries reports on the diversity of the business (as per the front cover).

Local Mix is a family owned business established in 1971 by Trevor Richardson and other partners. In 2006 Trevor became the sole owner of the Company comprising of Local Mix Quarries and Local Mix Concrete. Trevor Richardson is the Managing Director of the company with family members holding key positions in the organisation. Stuart and Mark are involved with the concrete division, Steven in the quarries and their mother Dianne operates and drives various pieces of mobile equipment.

From an initial concrete plant at Fyansford the Local Mix moved to their current site at Moolap. A second concrete plant was purchased to cater for the north side of Geelong.

In the late 1980's Local Mix got involved in the quarry industry with a basalt quarry at Drysdale and a sand operation at Anglesea and St Leonards. All of these initial operations have been exhausted and new sites secured at Anakie (basalt quarry), Moriac (sand and gravel) and Portarlington (fine sand).

The quarries supplies concrete and decorative aggregates, washed sands, gravels and crushed rocks to local garden supplies and earthmoving contractors. The primary role of the quarries is to supply aggregates and sand to the concrete plants. Projects undertaken include providing bedding sand for new pipelines in the Geelong region, concrete and quarry products to the new ring road and base material for an upgrade to the railway in North Geelong.

With left over concrete to dispose of, Local Mix began recycling concrete in the mid 1990's. This has led to the purchase of several track mounted mobile crushing units to allow flexibility at their own sites and expand in the mobile crushing business.

The expansion at Local Mix has seen us grow from a purely Geelong District concrete company, to now providing a wide range of quarry products, recycled concrete and mobile crushing services throughout Victoria.

Local Mix Quarries has been a CMPA member since 2000 and thanks it for the benefits membership provides.

Steven Richardson at Local Mix Quarries.



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# Safely Lifting Jaw Liners

This article is a continuation from page 11 of this edition of *Sand & Stone*

## DEVELOPMENT OF THE FINAL JAW LINER LIFTING TOOL

LEW DILKES from *Crushing Equipment* also reported on their trial, particularly from the supplier's viewpoint.

The jaw liner lifting tool was presented to the CMPA Committee as an alternative and the members from *Crushing Equipment Pty Ltd* accepted the opportunity to explore the challenge.

A project (project number CE011) was established and developmental work began early 2009.

The team included Lew Dilkes and Trevor Box of *Crushing Equipment Pty Ltd* to design and manufacture the initial prototype tool and Brian Calovic and his team at *Conundrum Holdings Stawell Quarry* who carried out all the onsite testing. Brian and his team provided valuable feedback for the development of the tool through to the final stages. Further assistance was provided by the *Scaw Foundry Group* with the manufacture of modified crusher Jaw liners along with *Crushing Equipment Pty Ltd* sister company *PWB Anchor Limited* and *Townley Drop Forge Pty Ltd* who played their role with the manufacture and certification of the final forged components.

The Jaw Liner Lifting Tool will be supplied with Test Certificate traceable to the forging manufacturer and material supplier along with a specification document. A specification sheet is supplied with the Tool.

### Jaw liner lifting tool



At the end user's request the Jaw Liner Lifting Tool can be returned for inspection and include:

- Visual and dimensional inspection to determine any distortion
- Crack test inspection
- Proof load test
- Test certificate

All testing has been completed and a final report will be presented to the CMPA committee shortly.

Benefits of the Jaw Liner Lifting Tool CE011 include:

- Elimination of the requirement for welding on lifting lugs.
- Eliminate the hazards associated with welding on lifting lugs.
- The forged lifting components of the Jaw Liner Lifting Tool are load certified to AS3776-2006 and the WLL is included in individual identification.
- No threads
- The stabiliser bar once attached to the tool will not allow the Jaw Liner Lifting Tool to separate from the jaw liner in the event the lifting chains or sling becoming slack.
- The Jaw Liner Lifting Tool can be attached without removing or loosening bolts retaining the jaw liner.
- Jaw liners can be reversed without additional lifting attachments.
- Minimal aid required to position the jaw liner against the jaw face.

The cast holes and Jaw Liner Lifting Tool is designed this way for the following reasons:

- Easy to use
- Easy to manufacture, test and maintain
- There are no threads or hidden areas difficult to test
- One design suitable for all common jaw liners regardless of tooth profile and size up to the load limit.
- Lift holes are easy to produce at the Foundry and no machining required
- Holes positioned to allow new or worn liners to be lifted from any position
- Holes positioned on the fitting face can be filled with foam for easy cleaning for liner removal



Lifting Lug Components

- Holes positioned in the wear face for lifting at correct angle for installation and removal
- Holes positioned in the end for a vertical lift as required
- Holes positioned to ensure crane support is maintained while retaining bolts or wedges fitted.
- Holes do not interfere with the crushing operation
- Holes can be easily plugged (metal plug) if required

*Crushing Equipment Pty Ltd* welcomes the opportunity to work with the CMPA and its members on safety improvements and production cost saving initiatives that can be made. The jaw liner lifting tool development was a rewarding project. The experience within the Australian team along with the support from the *Scaw Metals Foundry* team members and the resources they have to offer are available for ongoing projects. ■

Further details are available from Lew Dilkes of *Crushing Equipment Pty Ltd* by phoning 03 9338 0200 for those who would like additional information on the Jaw Liner Lifting Tool CE011.



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# MARCELLO BARRO

The industry has lost the last of the old guard with Marc Barro passing on the 16th August 2010. All associated with the CMPA pass on their condolences to the Barro family.

**M**ARC was an approachable, interested and honourable gentleman. He was a person who closely worked with the quarrying and concrete industry from the wheel barrow and hand-mixer, through to its present day position where truck deliveries of over 7m<sup>3</sup> are commonplace and crushing plants are processing at rates in one day which used to take a month to complete. The horse has been replaced with diesel and timber with steel.

The service highlighted the gentle nature of Marc and his gift of working and communicating with people. In attendance were wide ranges of the community, both young and old alike that had come in contact with Marc throughout his life and were there to pay their respects. One can still visualise his cheeky smile.

*Following is his life story as presented at his requiem mass –*

Marcello Barro was born on 20 July 1923 in Arcade, in the province of Treviso, Veneto region of northern Italy. The family unit consisted of the father Dalfeo Luigi Barro, the mother Amalia Favaro and the children, Duilio, Marcello, Luigia and Francesco, who lived in one big house with Giovanni Barro and his family.

In late 1927 Dalfeo left for Australia to look for work so that he could earn enough money to bring his family out from Italy to the promise of a better life. Eventually, nine years later, on March 18, 1936 the family departed Genova for Melbourne on the ship 'Viminal', a trip that would take 47 days. Here they were reunited with their father.

Marc was 23 years old when he joined his brother Dave who had started doing concrete paving jobs and had become very busy. Their first 'tools of the trade' consisted of a wheelbarrow and hand mixer which could hold three cubic feet on two wheels towed behind a 1928 Chevy ute, and together they worked out the back of their parent's house.

Word soon got around about these two brothers who could do a good job in half the time of anybody else. The concrete jobs were becoming more frequent from foundations, porches, footpaths, factory floors, and kerb and channel. As business grew, more people were hired, especially as there was a lot of local council work and many surrounding builders used them.

Meanwhile, down Carlton way, back in late 1948, there was a group of local girls who regularly went to the St Georges Dance Hall in Rathdown Street. Adeline (Dina), city girl, meets Marc, concreter with the old Chevy ute.

Dina only saw Marc about once a month as Marc would 'do the rounds' of the dance halls. Marc suddenly started going to the St Georges dances more regularly with his other brothers. Eventually they became engaged and married in 1953 at St Brigids Church, North Fitzroy. They went on to have two daughters, Gina and Brenda.

In the 1960s one of the biggest jobs the business had was supplying all the concrete for Westfield Doncaster, Shoppingtown. A concrete plant was purpose built on site, and Marc stayed the duration of the project working tirelessly alongside his men. It was



Marcello Barro – A True Gentleman

hard for trademen coming to the building site to find just who the 'boss' might be!

Marc was awarded a Life Governor of Ashcare and Scope Victoria for his tireless efforts and was a philanthropist for many other charities. He was a man who made you feel that you were the one person he had been waiting to see all day, such was his ability to make you feel special.

As a brother and uncle, Marc was loyal and faithful. His partnership with Dave, was to see the Barro Group grow into the business it is today. He was highly respected and loved by all who worked alongside him over the years. A man of great integrity, who was practical, showed great strength, but also compassion and kindness.

One of life's true gentlemen. ■

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# CMPA 2010 AGM & DINNER

The CMPA Annual General Meeting and Dinner came to Melbourne, where guests networked with industry peers and were entertained musically and comically. GAVIN MOREIRA, CMPA Administration Officer reviews a fantastic night.

**T**HE culmination of twelve months of planning and hard work by the Secretariat evolved into a wonderful night, where over 200 Members and their guests gathered on Saturday August 21 at the RACV Club in Melbourne for the tenth AGM and Annual Dinner.

The evening commenced with the Annual General Meeting; where the Chairperson, Associate Chairperson, Education Chairperson, Policy & Special Issues Chairperson, Treasurer and Secretary presented their annual reports. These presentations are included in the Annual Report and are available in the Members Only area of the CMPA website.

Robin Hocking CMPA Treasurer presented the audited financial reports for consideration and these were approved. Key points from the reports included:

- The year ended with a moderate loss.
- The major sources of income were membership subscriptions, contributions from meetings / events and newsletter advertising which were all higher than the previous years. Also included were publication sales which were slightly down on last year. Total income was higher than the previous year.
- Employment expenses were the single largest expense in 2009/10. Other expenses included publications, consulting fees and the costs of holding meetings and events. Total expenditure was higher than last year.



Bendigo Rally Presentation at the CMPA Annual Dinner

These figures outline the great importance of continued membership which provides the financial basis for CMPA to continue its work.

Guest speaker John Mitas, General Manager Minerals and Extractive Operations, Department of Primary Industries talked about the government's response to the CMPA's document 'An Unsustainable Future – The prohibitive costs of securing access to construction material resources in Victoria'. As well as he also provided an update on changes to extractive regulations and the MSRDA Review.

The last order of business for the AGM was the re-election of Tim Bird as Chairperson for a further 12 months. We thank Tim for taking on this role again and look forward to working with him over the coming year. Also we elected a new member to the Management Committee, Steven Richardson from Local Mix Quarries for a three year term.

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# Saturday 21st August at RACV Club in Melbourne

Pre-dinner drinks were held in the lobby which allowed guests to meet and greet friends and peers over a beer or wine and be entertained by roving musicians from Wacky Entertainment.

Soon it was time to move into the rooftop function room where guests were welcomed by MC Col Cameron and greeted by spectacular views of Melbourne through the surrounding glass windows.

A few brief words were provided by Tim Bird, CMPA Chairperson covering the highlights of the past twelve months including the development of the Unsustainable Future document which involved numerous contributions from members. He also acknowledged the hard work of the Associate and Management Committees over the past year. Tim closed his address by thanking all those members and non members of the association and the industry for their



Members and their Guests at the Annual Dinner

## CMPA Silent Auction Prizes



help, support and commitment to the CMPA Rally in Bendigo against the Resources Super Profits Tax. A DVD of the rally was then played which depicted the pride of the members in the association through photos, newspaper articles, and radio and television coverage both in Melbourne and in Regional Victoria. (A DVD of photos of the day can be purchased for \$10 from the Secretariat 03 5781 0655)

MC Col Cameron then officially opened the CMPA Silent Auction for the night, which involved guests bidding on items throughout the night on gifts donated by members. The auction raised over \$4000 with proceeds going towards the CMPA Educational Fund to develop educational and training resources to improve safety in your workplaces.

Prizes and the winners are tabled below:

CMPA SILENT AUCTION		
SPONSORED COMPANY	PRIZE	WINNER
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EI Engineering Pty Ltd	Penfolds Grandfather Port	Peter Baenziger - Mansfield Constructions
Galesafe Weighing	Tram Car Restaurant Voucher x 2	Collette Gellion - Belmont Diesel
Galesafe Weighing	Eureka Skydeck Experience x 2	M & K Wyatt - Allstone Quarries
Mansfield Constructions	AFL Tickets x 4 at Ethiad Stadium	Tom Bruce - Crushing Equipment
Oli Vibrators Pty Ltd	Limestone Track - Shiraz 3L Bottle	Albert Toal - Lincom Group
Onetrak Pty Ltd	Diecast Model - Hyundai Excavator	Tom Bruce - Crushing Equipment
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# CMPA 2010 AGM & DINNER

A prelude to the main act was a DVD presentation displaying the power of explosives and blasting to our industry. Frank Santoro, Orica gave the following introduction.

“Orica Quarry Services is well known to most here as they supply blasting products and services to many CMPA members throughout Victoria. Orica is proud to support the CMPA on such a wonderful and fantastic evening and has put together a blast DVD compilation of all different types of blasts performed by the Quarry Services group throughout Australia.”

The feature act of the evening was the MC turned comical sensation Col Cameron who made us all laugh as well as keep us entertained for the night.

The dinner was an overwhelming success with many new contacts made and old ones renewed. The night was complete with about fifty guests enjoying quiet drinks and social conversation held in the wine bar.

We sincerely hope everyone had a great night and as you can see from the photos it certainly appears that way!

## THANKS TO THE SPONSORS

On behalf of the guests at the 2010 Annual Dinner, we would like to thank all those who sponsored the evening:

*Platinum sponsors:* Astec Australia Pty Ltd and Sandvik Mining & Construction

*Gold sponsors:* Atlas Copco Construction and Mining Australia, Belmont Diesel, Crushing & Mining Equipment, Crushing Equipment, Delta Rent, Finlay Screening & Crushing Systems, Orica Australia (Quarry Services), Terex Jaques, Victorian Construction Equipment Pty Ltd, WAM Australia, William Adams

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*Early Bird Prize Sponsor:* Lincom Group

It would be greatly appreciated if all Members could thank these companies if you are talking to them. Members are asked to consider these companies when you are next pricing a job. •

*Photos from the night are available to be downloaded free of charge from [www.actionpix.com.au/CMPA02010](http://www.actionpix.com.au/CMPA02010).*

## NEWS FLASH!

*The 2011 Annual Dinner will be held in Echuca on Saturday, August 27. More information will be available in the next issue of Sand & Stone, but put it in your diaries now as an eventful weekend away.*



*A Special Thanks to our Platinum Sponsors for 2010*



# Trucks Tipping Over the Edge

The Department of Employment, Economic Development and Innovation's (QLD) latest safety alert looks at the hazards of trucks tipping over the edge.

## INCIDENT

There have been a large number of serious incidents lately involving haul trucks passing through berms when tipping over the edge.

In one week recently three events were reported on three consecutive days.

Further investigations have also uncovered some mines at which trucks have damaged berms, but the incidents have not been notified to an inspector. Site senior executives are advised that the Chief Inspector of Coal Mines regards any incident of a truck damaging a safety berm as an unplanned movement that endangers the safety or health of a person.

## HAZARD

Berms - Section 139 of the Coal Mining Safety and Health Regulation 2001 states:

'If rear dump trucks are required to dump up to, or over, an edge at a surface mine, the mine's safety and health management system must provide for constructing and maintaining a safety berm to reduce the risk from the trucks toppling over the edge.' Berms must be seen as a safety extra, and should not be used as a brake or even an indicator that the edge has been reached. They need to be designed to suit the nature of the material and the size of the machinery. While traditional rules of thumb such as half the height of the wheel may be useful, they need to be supported by geotechnical calculations.'

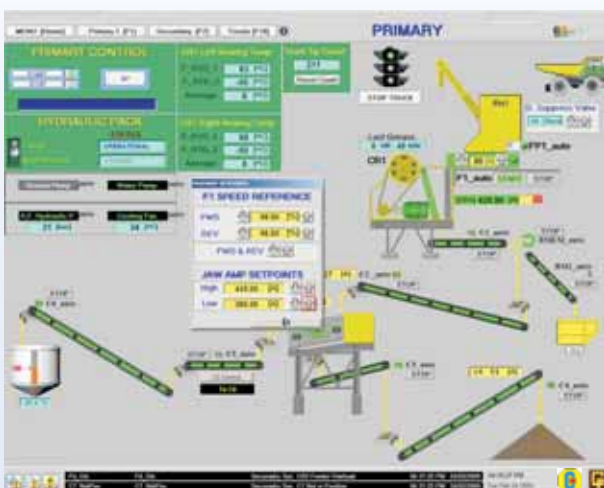


## CAUSE

*Angle of approach* – In many of the incidents, the truck has not approached square to the berm, but at an angle of 20 degrees or more. This greatly increases the force exerted on the berm if contact is made.

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**Strength of material** – In another incident, the material was a sandy topsoil, which would run through your fingers. A berm made of this material provides no resistance. Any risk assessment of the effectiveness of berms or the height of dumps would need to consider the nature of the material, among many other things.

**Lighting** – Most of the incidents have occurred at night. This raises issues about location of lighting plants, the effect of shadows and possibly fatigue.

**Proximity detection** – These incidents suggest investigating available engineering solutions, to warn that the truck has reached the berm or to guide the truck into a position square to the berm.

## COMMENTS

**Rescue** - Any risk assessment should also consider the recovery of the driver if the control measures fail and the truck falls over the edge. In one incident a fire broke out outside the driver's cabin on an overturned truck. Fortunately, emergency response teams were at the sites within minutes.



Haul Truck that toppled over the edge

## RECOMMENDATIONS

The number of incidents occurring at different mines in a short period of time show that the hazard exists. Assessment and management of the risk will require attention to many factors, including:

- Berm design
- Direction of travel
- Reversing speed
- Night time visibility
- Fatigue problems
- Dump material

While rules of thumb may provide guidance, technical expertise is also necessary to develop a suitable plan. OCEs, supervisors and operators need workable guidelines to decide when it is not appropriate to tip over the edge and other methods such as paddock dumping or short tipping must be adopted. ■

*A copy of the Safety Alert can be downloaded from [www.dme.qld.gov.au/mines/safety\\_information\\_bulletins.cfm](http://www.dme.qld.gov.au/mines/safety_information_bulletins.cfm)*

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## Quarry Firm Fined

A quarry firm in Taranaki, New Zealand has been fined \$30,000 after a worker was hit on the head by a rock the size of a cricket ball. Reported by KELLY LONEY, Taranaki Daily News.

AT the Hawera District Court, South Road Quarries Limited pleaded guilty to a charge under the Health and Safety in Employment Act for failing to take all practicable steps to ensure the safety of its employees while at work. The company also admitted a charge of failing to ensure there were effective methods in place to identify existing hazards to employees at work.

Director Shane Kells, 38, from Stratford, pleaded guilty to one charge that was laid on the basis that directors of companies are also personally liable when their company has breached any duty under the act.

In October 2009 employee Kenneth Jenkins, was injured while cleaning the rock crushing plant at the South Taranaki quarry at Tokaora. The quarry was in the process of being closed down and Kells and Mr Jenkins were the only people working there. While Mr Jenkins was cleaning in the hopper, the power generator was switched on to carry out welding work. The power also supplied the conveyor that fed rocks into the hopper but there was no way to turn it off other than removing a fuse or overloading of the machine. A rock the size of a cricket ball fell onto the conveyor travelled to the end and fell on Mr Jenkins' head.

Judge Robert Murfitt said that fortunately he didn't suffer any lasting injury and was able to remove himself from the hopper. "He had some minor difficulties with his neck ligaments but in a heartening display of robustness, unlike some other accident victims known to the court, he has taken a philosophical approach, moved on with life, is living in Australia and is not seeking to capitalise on the accident."

Judge Murfitt said the case emphasised that employers needed to maintain safe environments for employees and people who entered the work place. In the quarry's case there was no electrical isolation of the conveyor leading to the hopper and no effective hazard identification, he said.

In sentencing, the judge said the breach was not severe and in all the years of operation the company had not had any similar accidents. Judge Murfitt gave Kells credit for his early guilty plea; he was co-operative in the investigation and remorseful.

Kells had also taken immediate steps to install a switch to isolate the belt from the power supply and erected hazard signage alerting users of the potential risks. After fining the company \$30,000 and \$130 court costs, the judge convicted and discharged Kells. ■

*Article sourced from [www.aggregateRESEARCH.com](http://www.aggregateRESEARCH.com)*

# Importance of Staff Education

WAYNE DOUGLAS of E.B.Mawsons & Sons Pty Ltd reports on the importance of keeping your staff educated.

## CONDUCT CRUSHING AND SCREENING

Back in May a Conduct Crushing and Screening Course was held in Bendigo. We felt privileged to have personal training; with the course attendees consisting of five employees from Mawson's. Our expert trainer - Noel Pickering (Training Consultant Extractive Industries Industry Education and Training) was in charge and made our course pleasurable, informative, and educational with his vast industry experience and knowledge.

Noel's portrayal of the course was relayed by videos, slides, actual personal involvement and he encouraged participation of our personnel with each employee talking about aspects of their quarry operations during discussion periods. During the course we discussed and witnessed the parameters of crushing followed by screening issues.

Safety was always at the forefront of each item of topic from operations through to maintenance. The course covered the types of crushers available and how they operated, different types of steels and their uses. Maintenance operations were also discussed during the crushing component which gave a better understanding of overall requirements.

We then moved onto screen types, how they operated and why they we used. The screened media type was also discussed with different materials, processes, benefits, advantages and disadvantages.

Next on the agenda was conveyors, feeders, hoppers and bins. Different types of operations and maintenance requirements were again portrayed with active participation and discussions by attendees. Also covered was material on the different types of screens, both fixed and portable and the differences between them.

Conducting plant operations was broken down to discuss the production requirements through preparations, processing, monitoring, quality, output emissions and maintenance.

A lot of effort has been put into this course with the content which was passed on by a very knowledgeable, down to earth trainer which made our trip an enjoyable and educational pleasure to attend.

It was beneficial to all who attended and a highly recommended course to all CMPA members.



Site Photo – E B Mawsons & Sons Pty Ltd's site Lake Cooper

## WORK SAFELY TRAINING

The number one priority for E.B.Mawsons and Sons Pty Ltd is safety and therefore this course is mandatory for all Mawson's quarry and maintenance workshop employees.

Conducted over two separate days, in following weeks, employees are shown the essential requirements of understanding, operating and working safely alongside their fellow workers. This involves all the aspects throughout the quarry site from site safety procedures, personal safety, operational safety and the prevention of incidents.

We have found the 'quicker' we can have new employees involved with this training course - the better their understanding is developed and this helps with their day to day well being, participation and performance.

All employees are also actively involved in OHS meetings, with each quarry site meeting regularly in which all site employees attend the meeting. Therefore attending the Work Safely course reinforces our companys approach to safety as they 'marry' up to each other. Noel Pickering's (Training Consultant Extractive Industries Industry Education & Training) vast industry experience makes this journey of training and education an enjoyable one to attend for all. ■



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# DPI Update

JOHN MITAS, General Manager Minerals and Extractive Operations reports on changes to regulations for Victoria's mining industry.

THE "Code of Practice for Small Quarries" (the Code) has been made. The Mineral Resources Development (Mining) Amendment Regulations 2002 were made on 30 June 2010. The resulting changes to the Mineral Resources Development Regulations 2002 are now in operation.

The changes include the introduction of specific work plan requirements and reporting requirements for declared mines. Mines that are deemed to pose a significant risk to public safety, the environment or infrastructure (due to geological or hydro geological factors) can now be 'declared' by the Minister under the Mineral Resources (Sustainable Development) Act 1990 (MRSDA).

Declared mines are subject to additional risk management obligations via the declared mine's work plan. Declared mines are also subject to additional reporting requirements to manage any identified geotechnical or

hydro geological risks, and must provide six monthly written reports to the Department Head, unless a different period is nominated. Reporting requirements for all mines have also changed in relation to reportable events. Details of what constitutes a 'reportable event' are outlined in the new regulations. The Chief Inspector must now be advised if any 'reportable events' occur at worksites. Initial reports must be made as soon as practicable after the event occurs, and a more detailed written report may be required at a later date. The report must advise of the details of the event, the cause of the event, the steps taken to minimise the impact of the event and details of actions taken or proposed to be taken to prevent a recurrence of the event.

A levy has also been introduced for Latrobe Valley region coal mines. The prescribed Latrobe Valley region coal mines are the Loy Yang, Hazelwood and Yallourn mines.

References to occupational health and safety (OHS) have also been removed from the regulations, as OHS is now regulated by WorkSafe Victoria under specific OHS legislation and regulations.

The regulations now also prescribe the information to be contained in an area work plan schedule. This change has been made to support amendments to the MRSDA to streamline certain exploration approvals to work effectively with cultural heritage requirements under the Aboriginal Heritage Act 2006. ■

*Copies of the new regulations are available on the Victorian Legislation and Parliamentary Documents website, [www.legislation.vic.gov.au](http://www.legislation.vic.gov.au).*

*The above article is an extract from the August 2010 DPI Newsletter and is available at the following link: <http://new.dpi.vic.gov.au/earth-resources/whats-new/minerals-and-extractive-operations-newsletter>*



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# VLPA Update

PETER MCCLUSKEY from the Victoria Limestone Producers Association reports on the impacts of the RSPT.

**T**HE Resources Super Profit Tax has been defeated as far as our industry is concerned but we must remain vigilant with the uncertain Federal Government scenario facing us at the time of writing. Much work was done by our sector in highlighting to government, both to Treasury and relevant governing party Ministers, the counter-productive effect the tax would have on both the economy and the sector.

The extensive truck convoy through the Bendigo CDB and follow-up rally in June organised by CMPA and supported by VLPA and NGMA members, was a highpoint in the campaign. Ron Kerr and Tim Bird from CMPA are to be congratulated for their efforts galvanising the industry into action for the event in such a short space of time.

As Ron Kerr pointed out at the rally, it was probably the first organised rally of limestone producers and quarry activity associations opposing government charges since Eureka!

The DPI has advised that the Code of Practice for small miners has come into operation recently. Information is on the DPI website and in the June/July issue of *Sand & Stone*.

In summary mines and quarries under 5 metres in depth and under 5 hectares won't require a work plan providing they don't have native vegetation and blasting issues but operate in accordance with the Code. However planning approval will still be required.



RSPT Bendigo Rally 2010 - A Victory to Commonsense

### VLPA SHIRTS NOW AVAILABLE

Blue cotton shirts with VLPA logo are now available in all sizes at the bargain price from a special supplier at \$5 for the shirt and \$12 for the logo to be embroidered. Company logos can also be added on at a negotiated price.

Several members are currently wearing them, with one member having purchased a multiple number. They are ideal for field days; meetings etc. where corporate identification is popular. Contact Peter McCluskey to arrange supplies.

### VLPA 2010 AGM & CONFERENCE

The VLPA 2010 AGM & Conference is likely to be held around the second week of November in Melbourne's south east, which will facilitate a laboratory visit in the vicinity. Further details will be available soon. ■



For further information contact Peter McCluskey 0408 496 588

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# Kinder & Co looking ahead to the next 25 years

Leading bulk materials handling product supplier, Kinder & Co has added to the 25th anniversary celebrations in style with the opening of a new factory and office complex. Report by CHRISTINE KINDER

LOCATED in Braeside in Melbourne's south-east, the new complex features state of the art warehousing and administration facilities and is expected to improve inventory and logistics management as the company serves a growing client base across Australia.

Officially opened by independent quarries association, CMPA Honorary CEO, Ron Kerr, the complex consists of 2500 square metres of warehousing space. This is a massive upgrade on the previous premises according to Managing Director Neil Kinder.

"The new premises illustrates the fantastic growth we have experienced as a company over the past decades but also represents the future direction Kinder & Co is taking," Mr Kinder said.

"The opening is a celebration of what we have achieved, our future direction and the introduction of a new generation to the company.

"Christine and I are pleased to have Charles Pratt recently join the management team and there is an expectation that our son Sean will join the business upon completion of his engineering studies. "We're also pleased to have diligent and committed staff that has made our growth all the more possible," Mr Kinder said.

As well as opening the new warehouse complex, Kinder & Co has recently unveiled their new brand proposition, "Made Better", and introduced a range of relationships with world-class bulk material handling equipment manufacturers.

## New site office in Braeside



Ron Kerr opening the new site with Christine and Neil Kinder

Christine Kinder said client loyalty had been critical to building business. "None of our growth would have been achieved without the loyal support of our clients," Christine Kinder said. "Many of our clients have been with us since we first started."

CMPA Honorary CEO Ron Kerr said the Kinder business reflected what was good about small to medium enterprises in Australia.

"SMEs play a significant role in innovation, employment, economic growth, social support and stand as fine examples of what can be achieved. Growing an SME is always exceptionally difficult on cash flow and can drain on the family relationships as well as the workforce. What we see here is a family business that has worked its way through the pain barrier," Mr Kerr said.

"SMEs are only as strong as their support staff," he said. "Unless they have a loyal team a team that is interested and committed, and a succession plan, success will be limited.

"Here is a company that has grown over 25 years supporting customers such as Xstrata, BHP Billiton, Boral and the many hundreds of independent businesses across Australia.

"There would not be a person in our industry who is not aware of Kinder & Co and the range of conveyor products they provide." ■

For more information contact Christine or Neil Kinder on 03 9587 9244

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# Getting the Dirt on Bucket Design

Many millions of dollars are spent each year on new excavators and wheel loaders trying to get more reliability, economy and low maintenance. But, the machine may not necessarily be the problem reports ADRIAN MASON of EI Engineering Pty Ltd.

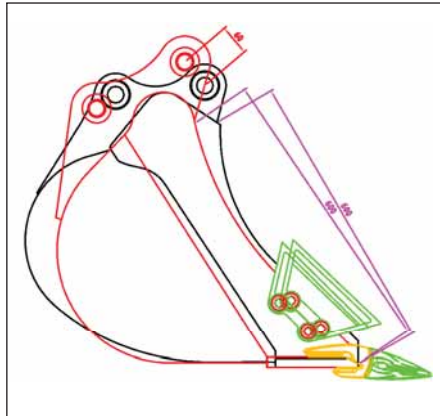
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Excavator and wheel loader buckets are no different. The bucket must be designed to dig efficiently and economically to the geometry of the machine.

The Ground Engagement Tool (GET) is actually designed to cut efficiently into the material, enabling the bucket to be a collection



Shorten pin to point - greater bucket breakout

tool so the cut material falls into the bucket rather than the material being rammed into the bucket by the machine using excessive power and fuel. Traditional flat bottomed

excavator buckets plow the ground, create extra wear on bucket and machine, use more fuel and create more machine maintenance.

eiengineering have designed buckets that enhance the capabilities of the excavator with a tapered, double radius back plate bucket that follows the G.E.T. through the material, in the arc of the excavator arm, collecting full bucket loads quickly and efficiently, using less machine power, thus lowering fuel and maintenance costs.

The superior bucket shape, creates a shorter pin to point (distance from the front bucket pin to the bucket teeth), which provides greater bucket breakout and more power into the teeth, without losing any bucket capacity. The front to back taper ensures there is minimal bucket drag as it progresses through the cut.

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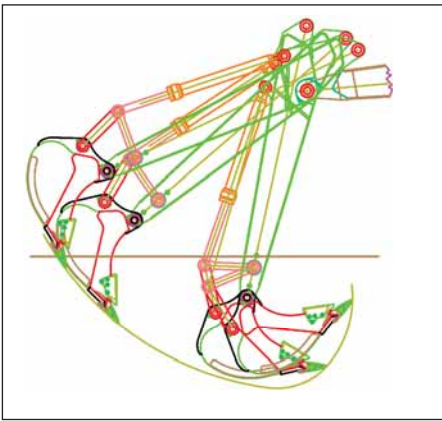
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Double radius design provides optimum digging

Another important design issue is the bucket geometry. Each machine has a different geometry and is responsible for two main criteria, bucket breakout and the bucket loading and dump positions.

If the bucket is designed to the geometry of the specific machine, it will dig the material at the correct position where the most power is generated, collect a full bucket load every time, and dump easier.

As global warming dries and continually hardens the earth's crust, it is becoming more important that bucket manufacturing materials are harder and stronger and weld sizes larger to ensure that it holds together. Using high tensile steel such as Bisalloy, which is 3 times stronger and abrasive resistant than mild steel, ensures buckets will be more robust and last longer. In harder and more abrasive environments, wear packages designed to protect the bucket structure are recommended for greater working life and economy.

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eiengineering manufacture a full range of tough and efficient excavator buckets, hammer friendly hydraulic and tilting quick hitches, grapples, compaction wheels, skeleton buckets and rippers for excavators and wheel loaders up to 300 tonnes for all applications. ■

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# The Growth of the Lincom Group

ALBERT TOAL, Lincom Group General Manager reports on the growth of the Lincom Group.

LINCOM Pacific Equipment Pty Ltd and Powerscreen Australasia Pty Ltd were formed in 1998 to supply crushing and screening equipment to the extractive and recycling industries in Australia and Papua New Guinea.

In this year the market trend for conventional wheel mounted machines slowed down dramatically with the introduction of track mounted plants. In 1999 the Lincom Group was appointed the Australian and PNG dealership for Powerscreen and Terex-Pegson (divisions of Terex)

Track mounted machines offer so much more to the customer such as, ease of transport and better access on sites to enable the jobs to be performed quicker. All of these factors saving the customer money. Powerscreen Australasia Pty Ltd experienced good sales of this equipment due to the fact that they were ahead of the competition with the track mounted models we could offer.

Between 1998 and 2006 both companies continued strong sales, service and spares were continuing to cement our position as the number one supplier in the market. In this period employee numbers went from the initial six to thirty employees nationally. Offices were established in Wollongong in 1999 and Perth in 2002. With the introduction of the track mounted machines, the solid growth in the mining sector and infrastructure has consistently increased our machine sales which has forced us to increase our rental fleet machines. The rental fleet is also a great aid to sell new machinery (try, rent, buy) and a fleet of well maintained used equipment with full service history now operating. The rental fleet is a great source of recurring income.

In early 2007, Recycling Systems Australia Pty. Ltd. (RSA) was formed, primarily in this market sector to diversify Lincom Group into the supply of quality recycling equipment. Management recognised that the marketplace had a lack of suppliers offering full parts, service and after sales capability. RSA was initially established to distribute Morbark organic recycling equipment and the Kleemann range of larger mobile crushing equipment.

A further opportunity evolved for RSA to expand into the bulk material handling industry through securing the exclusive Australian distribution rights for Telestack products. Telestack offer a range



Site Photo – Bracalba Quarry in Queensland

of innovative conveyor systems to service larger existing Lincom customers and new opportunities for ship loading, material transfer and bulk stockpiling. New clients include port authorities, larger mining companies and bulk material handlers.

To summarise the successful growth that the Lincom Group has endured over the years is contributed to the commitment of all of the staff involved who are passionate about what they do in their job and wanting to see the company succeed and grow further.

The customer mix has also been a key factor in the company's growth. Traditionally our main customer base was quarries, small to medium contractors and sand and gravel suppliers. With the local economy going so well, our client base expanded to blue chip companies that wanted to invest in this sort of equipment. This was also extended to the larger private earthmoving and mining contractors that predominately stuck to earthmoving now see an opening for utilising our equipment to expand their business. ■

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# TRAINING & EVENTS

## BLAST MANAGEMENT WORKSHOP

A Blast Management Workshop will be held to look at the proposed changes to the Dangerous Goods (Explosives) Regulations 2011. One of the proposed changes will be the requirement for blast management plans by shotfirers and the second is the establishment of exclusion zones when using blasting explosives. The workshop will include a presentation from WorkSafe.

Date: 21/10/2010

Time: 1.30 – 4.00pm

Location: Quality Hotel Melbourne Airport,  
265 Mickleham Road, Tullamarine

Cost: Members \$40, Non-members \$60

RSVP: 14/10/2010

Refer to the CMPA website for upcoming training courses and their relevant booking details, [www.cmpavic.asn.au](http://www.cmpavic.asn.au)

## UPCOMING CMPA TRAINING COURSES

### Shot Firer's Refresher Training & Assessment

Box Hill Institute of TAFE – 16th November 2010

### Work Safely Training

Traralgon – 5th & 19th November. Also 12th & 26th November.

### Conduct Crushing Training

Traralgon – 11th & 25th November.

## CATERPILLAR INSTITUTE (VIC-TAS) TRAINING

### Operator Training – Clayton Campus

- ECO Operator Training – 7th October, 11th November
- Dump Truck Training – 29th November
- Excavator Training – 13th October
- Forklift Training – 8 & 15 October, 12th November
- Skid Steer Training – 26th October, 10th November
- Traffic Management – 29th October, 26th November
- Wheel Loader Training – 30th November

For course information visit website [www.caterpillarinstitute.com.au](http://www.caterpillarinstitute.com.au)  
To book phone 03 9953 9544 or email [Bezzina\\_Tessa\\_N@cat.com](mailto:Bezzina_Tessa_N@cat.com)

## Second Hand Equipment For Sale



### LIEBHERR FACE SHOVEL

1988 Liebherr R974  
Face Shovel  
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### TEREX DUMP TRUCK

Mid 70's Terex R22 Rigid 22t  
capacity Dump Truck. Hrs  
unknown. 225hp Detroit 671  
engine. Allison Transmission

**FOR SALE: \$25,000**



### CAT WHEEL LOADER

Caterpillar 966C wheel  
loader (Ser.No.78G2586).  
Hrs unknown.

**FOR SALE: \$20,000**



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Striker Crushing & Screening, 07 3881 1227  
Symphony Wire, 02 4933 3148  
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Craig's Drilling, 0409 416 705  
Edge Drilling, 0408 104 414  
Impact Drilling, 03 9310 2011  
Orica Australia (Quarry Services), 03 9217 6633  
RM Drilling, 03 5762 6960  
Statewide Drilling (Vic) Pty Ltd, 03 9879 2999

#### EDUCATIONAL TRAINING

Bendigo Regional Institute of TAFE, 03 5434 1653  
Box Hill Institute of TAFE, 03 9286 9711  
Caterpillar Institute (Vic-Tas) Pty Ltd,  
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#### ENGINES & TRANSMISSIONS

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Central Queensland Hydraulics, 07 4952 5621  
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#### EQUIPMENT & PLANT HIRE

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Landmark Contracting, 03 9589 6424

#### INDUSTRY CONSULTANTS

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Bureau Veritas HSE, 03 9922 0700  
Chadwick T & T, 03 8796 7900  
CJ Ham & Murray, 03 9670 7108  
CK Prowse & Associates, 03 9429 2433  
Earth Tech Services, 0413 609 624  
Extractive Consulting, 03 5786 2174  
Focus Creative Development Solutions,  
03 8794 9911  
Main & Associates, 03 8361 8727  
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National Australia Bank Limited, 03 9839 7208  
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#### MATERIALS HANDLING

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Earthmoving Industry Engineering Pty Ltd,  
03 9763 3588  
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03 9761 7355  
Statewide Bearings, 03 8710 9777  
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#### MOBILE PLANT

Belmont Diesel, 03 5248 7253  
BT Equipment, 03 9554 0300  
CJD Equipment, 03 9305 2566  
Delta Rent, 1300 793 071  
GP Smith Equipment (Vic) Pty Ltd, 03 9793 1588  
Hitachi Construction Machinery, 03 9791 6666  
Komatsu Australia, 03 9205 9300  
Onetrak Pty Ltd, 1300 727 520  
Vermeer Australia, 07 3275 4888  
Victorian Construction Equipment Pty Ltd,  
03 8339 4705  
William Adams, 03 9566 0666

#### ON ROAD VEHICLES

CMV Truck & Bus, 03 9931 6777

#### PLANT FABRICATION

Fusion Hire Services, 03 8770 5770

#### PRODUCTION CONSUMABLES

Crushing Equipment, 03 9338 0200  
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