

SAND & STONE

The official magazine of the CMPA

- PLANT CONDITION MONITORING
- WORLD WIDE PRODUCTION
- 2011 ANNUAL DINNER
- WAGE RATE INCREASE

ISSUE 57

June/July 2011

WORKING
TOWARDS
A BETTER
FUTURE

Mount Granite Quarries

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- LATE MODEL EQUIPMENT
- AVAILABILITY AT SHORT NOTICE
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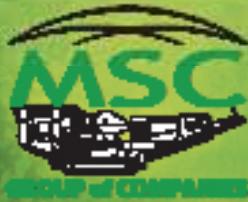
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FROM THE CMPA SECRETARIAT

Working Towards A Better Future

CMPA Honorary CEO, RON KERR considers the impact of the MRSDA Review on our industry.

THE aim of the CMPA has always been to ensure that market entry is not restricted and that regulatory burdens are not placed upon the industry that ensure only those with unlimited liability have a possibility of participating.

The CMPA Members are very concerned at present at the future of our industry. We are seeing that the costs to comply with current regulations and the enormous costs involved in applications and variations are having major impacts on our industry. There is clear evidence that the industry is not taking up the challenge alone and this is reflected in the shortage of new Work Authorities over the last ten years, and resultant supply shortages throughout the state of Victoria.

The CMPA's *An Unsustainable Future* report of August 2009 highlighted nine industry participants each of whom has, and in some cases three years on are still, participating in the Work Authority process. A range of matters bearing directly on the competitiveness of the industry in Victoria were revealed and in the most part remain unresolved.

However, the CMPA's experience with the amalgamation of the *Extractives Industry Development Act (EIDA)* into the Mineral

Resources (Sustainable Development) Act (MRSDA) showed the government had no respect for the impact the amalgamation would have upon the extractive industry and was only interested in its own cost reductions. The extractive industry picked up a higher risk profile in being associated with mining, and also picked up additional regulatory obligations (particularly in terms of community engagement and the release of rehabilitation bonds).

Any further amalgamation must take into account that approximately 90% of Extractive Industry Work Authorities managed by the Department of Primary Industries are small to medium sized businesses and there is no evidence of risks to justify further increased regulatory burdens.

If we ended up with regulations that are easier to understand and apply and actually result in saving to the industry and consequently the consumer, then there would be some sense in all the papers and all workshops and meetings that have been happening in this MRSDA review process. ▀

See page 10-11 for further details.



ANNUAL DINNER 2011 AT THE MOAMA BOWLING CLUB

The CMPA 2011 Annual Dinner at the newly refurbished Moama Bowling Club is now only weeks away. With the Secretariat now applying the finishing touches to what will be an enjoyable weekend for all Members and their guests.

It will be a great night to catch up with old friends, network with fellow Members and meet new people with the same interests. You will be wined, dined and entertained with beautiful music. Get your caricature drawn or win a prize at the silent auction.

Don't forget the extra activities planned for Members across the weekend as well; including paintball, golf and a paddle steamer cruise on the Murray. Don't miss out on a fun filled weekend!

RSVP closes on Friday 12th Aug. 2011

Date: Saturday 27th Aug. 2011

Location: Moama Bowling Club

Time: 5.30pm Pre-dinner drinks
6.30pm Dinner

Cost: CMPA Members \$95

Site Photo – Holcim Australia's Oakland Junction Quarry





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Mount Granite Quarries

VIN OLIVER, reports on the history and development of Mount Granite Quarries.

MOUNT Granite Quarries is a dimensional stone quarry situated on Mount Alexander Harcourt, it's a small family business run by Vin Oliver, wife Val, son Brett who is the fourth generation of quarrymen in the family, and daughter Candice.

The business started in the early 1940s, by Joseph Tingay (Vin's grandfather). He was manager of Harcourt Granite when he was approached by a Melbourne monumental firm to set up a new quarry who could not meet demand from current suppliers on the Mount. The quarry partnership began as Joseph Tingay, son Roy and son-in-law Ted Oliver (Vin's father who had worked at Blights Quarry and Harcourt Granite). A quarry was opened on the upper eastern slope of the Mount. For a period of time the business traded as Star Granite. The business name was not registered and the name had been taken by another business, so the name Mount Granite Quarries became the new name registered in 1983. After Joseph passed away, Roy and Ted continued the business together until Vin joined them. Roy retired in 1983 and Vin joined his father in the partnership. In the late 1980's, an application was made to extend the area of the lease but this was rejected and we were offered an alternative site on the lower slope of the Mount. All parties agreed on this site on the understanding that no more leases or extensions of leases would be possible on Mount Alexander.

Today, most quarries are associated more with blast rock rather than stone worked into something of structure or beauty. In dimensional stone quarrying we try to use a minimum amount of explosives as too much

blasting can cause fractures in the stone which is no good for monumental work. While modern machinery has made the work a lot faster, the method has not changed.

The method of dimensional stone quarrying begins with blasting and removing overburden, then one hole is drilled to determine the depth in the good stone. This hole is filled with blasting powder and fired. From here it is all cut with what is called plugs and feathers. Holes are drilled about 150mm deep by 100mm apart along the length of the stone then feathers and lugs are placed in the holes. The plugs are then hit from one end of the stone to the other with a sledge hammer (10LB) until the stone is split. The stone is then removed from the quarry face, and the process starts again, cutting it down to a size that the customer has ordered.

It is very hard to compete with stone that is imported from overseas. The demand for Australian dimensional stone had dropped quite a lot with look a like products coming into Australia so we have branched out into other areas to stay viable. We now not only supply monumental masons, we produce monuments, headstones, landscaping rocks, feature stones, walling rock, paving, garden edging, house lintels, all forms of bench tops, and small quantities of crushed Harcourt Granite. We also install monuments.

We may only be small, but we are proud to still be producing one of the most renowned dimensional stones in the world. We wish to thank the CMPA for the support we have had over the past eight years- without you we may not still have been doing what we love. ▀

Pictured on the cover is Mount Granite Quarries.



60 SECONDS WITH A VOTING MEMBER...

What is your name?

Vin Oliver

Who do you work for?

Myself (Mount Granite Quarries)

How many years have you worked for this business?

Over 40 years

How many years have you been involved in the Industry?

Over 40 years

What is your role at the company?

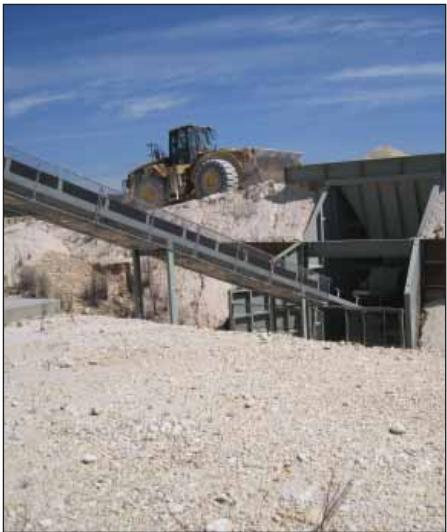
Manager

What does your job involve?

All aspects of running a business

What is the best part of your job?

Passing on the skills in quarrying stone to my son that my father taught me, and working together as a family.



CMPA NEWS

By CMPA SECRETARIAT

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

RECENT EVENTS

Associates Committee meeting was held at WAM Australia.

Management Committee meeting was held at the CMPA's office.

Bruce McClure attended the Civil Constructors Federation dinner in Bendigo which included speakers from VicRoads and the Environment Protection Agency (EPA).

Bruce McClure met with Bettina Poxleiter to discuss changes to NATA accreditation in Construction Materials Testing (CMT).

Box Hill Institute of TAFE delivered Cert. II units - Conduct Crushing Operations and Conduct Screening & Conveying Operations.

Bruce McClure attended a workshop as a part of the MRSDA Phase 2 Review of the Rehabilitation Bonds Working Group.

Bruce McClure attended a seminar in Melbourne with the Civil Construction Alliance.

Gavin Moreira visited regional associate members in the western suburbs of Melbourne.

Basil Natoli and Bruce McClure attended two Workshops regarding the MRSDA Phase 2 in Melbourne.

Bruce McClure attended the Earth Resources Triprtrite Safety Forum.

Garry Cranny and Bruce McClure represented the CMPA at the Bendigo Regional Institute of TAFE Stakeholders Dinner in Bendigo.

WORKSAFE GUIDELINES

At the recent Earth Resources Triprtrite Safety forum held in July 2011, Michael Leahy from Energy Safe Victoria commented on the current *Guidance For Electrical Safety In Quarries* document which was released by the then Department of Natural Resources and Environment (now DSE) in 2002. He was keen to gauge support for a revised, update of the guidance notes.

The CMPA was very proactive in the preparation of these guidance notes back in 2002 with a number of members providing valuable advice and assistance. There were two guidance documents prepared, one for the extractive industry and the other for mining.

Michael has been advised by the CMPA that the document has been well received and used by the extractives industry and that it should be updated. The CMPA also commented that it would be happy to work with Michael on a committee to review and update the document.

The general consensus from the meeting is that both the extractive and mining industries would like to see the guidance notes updated and revised where necessary.

MEMBERSHIP RENEWAL

All Members are reminded that membership renewal paperwork has been sent and their prompt renewal would be greatly appreciated. In all cases, no payment is required when renewing membership and tax invoices will be posted once the Secretariat receives this information.

Associates are particularly reminded that their membership paperwork includes *Sand & Stone* advertising. Accordingly we need to know your intentions before the August/September issue.

Thank you to those Members who have already renewed for the 2011/12 financial year.

ASSOCIATE VISITS BY SECRETARIAT

Administration Officer Gavin Moreira was out and about again on Monday 30th May for the fourth time in as many months; this time to visit Associate Members in the western suburbs of Melbourne.

The day involved site visits of six Associate Members; Atlas Copco, Groeneveld Australia, Advanced Engineering Group, Screening & Crushing Australia, Komatsu and Crushing Equipment.

A great opportunity once again to not only say hello and put faces to names but to make Members aware of the fantastic educational resource tools the CMPA has and how they can give you a better understanding of quarry operations.

The Associates were very keen to get their hands on the CMPA Reference Manuals to allow their service and maintenance staff to gain further knowledge of how their product is used within the workings of the quarry. They will also become a good resource tool and will be added to their onsite library.

The Members visited were once again very happy with the presentation, content and advertising opportunities in both CMPA publications *Sand & Stone* and the Associates Reference Manual.

They are all very keen to help the Secretariat and themselves by contributing articles to *Sand & Stone* about their business, their latest products and to keep quarry members aware of how they can support their business.

There is much anticipation around the Annual Dinner in Echuca/Moama, as well as the extra activities available to make it a fun-filled weekend. Gavin is looking forward to catching up with you all again in late August.

Thank you to all the Members recently visited by Gavin for taking the time to show him around your site and providing him with valuable information.

DR. RICHARD ALDOUS – APPOINTMENT AS CO2CRC CHIEF EXECUTIVE OFFICER

After nine years with DPI and DNRE, Dr Richard Aldous, Deputy Secretary Energy and Earth Resources, has been appointed as the new Chief Executive Officer of the CO2CRC (succeeding Dr. Peter Cook). Richard has a distinguished record with the mining industry and more recently with the Victorian Government, having led the facilitation and regulation of earth resources development as Executive Director, with energy technology innovation strategy and energy sector development added to his responsibilities when he became Deputy Secretary.

A particular focus of Richard's has been to lay foundations for a carbon capture and storage (CCS) industry in Victoria, to help derive future benefits from the State's energy resource endowment under carbon constraints. The advances made in CCS in Victoria owe much to Richard and are recognised globally for their vision and innovation. Richard's experience in CCS, coupled with his technical expertise, skills and contacts, are an excellent match to the needs of the CO2CRC.

Joanne de Morton will become Acting Deputy Secretary Energy and Earth Resources from Richard's departure. Joanne as Deputy Secretary Business and Corporate Services within DPI will bring her considerable leadership and management skills and a fresh insight into its programs and organisation, during a period of high challenge for the energy and earth resources industries.

2011/12 ASSOCIATES REFERENCE MANUAL

The 2011/12 Associates Reference Manual is currently being pieced together, with the intention of delivering it to Members in early October 2011.

A reminder to all Associates that, a signed membership renewal form will act as confirmation that all content on the form is correct for publishing in the manual. Renewal of advertising in the reference manual must be paid for in full before ads will be included.

There will also be the option of having colour logos or photos placed on your page to brighten up your page and to make your business stand out from the crowd.

Thank you to the nine Members who have already taken out ads your support is greatly appreciated. Remember to *Support the Suppliers who support you!*

IMPACTS OF NATIVE VEGETATION ON THE EXTRACTIVES INDUSTRY

Three CMPA members met recently with the senior advisor to the Minister for Environment and Climate Change to discuss the current Native Vegetation management framework. The following sums up CMPA's concerns about the impact of the native vegetation management framework. These concerns have been raised with the DSE and DPI on numerous occasions without resolution.

The native vegetation management framework is forcing our members' out of this industry as a result of:

- No clear, commercially attainable arrangements or outcomes
- Complex interpretations requiring exorbitant legal and consulting fees
- An inability to consider the positive environmental benefits of accessing the resource resulting in large highly valuable sites being locked up

Our members require assistance in:

1. Parliamentary evaluation of the framework, giving due consideration to the environmental, social and economic implications. This evaluation must be undertaken by a firm with experience in the financial implications and cumulative legislative burden upon the businesses. Terms of reference could include:

- Exploration of what native vegetation is
- Cost-benefit analysis of the current provisions
- How to change the current, ad hoc arrangements for 'conservation' of 'offsets' to advance the objectives of a biological architecture for Victoria
- Exploration of alternative and fairer funding arrangements

2. Identification of who within government is charged with encouraging an efficient extractive industry which makes best use of the resources in a way that is compatible with the economic, social and environmental objectives of the state and evidence of their duties being carried out.

3. Encourage more flexible policy able to utilise ideas such as:

- Embedding full extractive industry exemptions within the DSE's framework as this industry is often not a permanent change of land use in nature and already heavily regulated.
- Taking a balance sheet approach, giving value to the resource on par with vegetation.

DANGEROUS GOODS (EXPLOSIVES) REGULATIONS 2011

WorkSafe has released the final regulations that form the *Dangerous Goods (Explosives) Regulations 2011*. These replace the former regulations (proclaimed in 2000) that expired on 26 June 2011.

Following comments from a number of Members who use explosives the CMPA made a submission to WorkSafe outlining Members concerns with a number of proposed changes. The CMPA has requested comments on the new regulations from a number of affected Members to find out the extent of the changes in the regulations and the likely consequences. A detailed analysis of the new regulations will be provided in the next edition of the *Sand & Stone*.

Please note that although the changes came into effect on 26 June 2011, there is a 12 month transition period that means any activity under the *Dangerous Goods (Explosives) Regulations 2000* will remain lawful for 12 months after the new regulations come into effect.

Information regards the new regulations is available from worksafe.vic.gov.au/explosives



Efficient Regulatory Framework

RON KERR, CMPA's Honorary CEO reviews the requirements on an efficient regulatory framework.

OVER the last 10 years I have been privileged to hold discussions with many members of the CMPA and other industry participants. All have a passion for our industry; have it as their chosen profession and are proud to be associated with it. Their views and concerns, which come from many years of personal experience, need to be taken into account by our regulators. In the following review I have tried to relay their concerns within specific areas which may shed some light on the direction our industry should move when reviewing the MRSDA.

The areas are:

- Stone Stewardship
- Lead Agency
- Registration of EIWA Application
- Statutory Endorsement
- Work Plans, EIWA and Planning Permits
- Issuing EIWA's
- Variation of Work Plans

STONE STEWARDSHIP

Historically the government has had a commitment to identify and register stone resources throughout the state of Victoria. This can be seen in the early maps of Victoria, more recently with the Melbourne Metropolitan Board of Works (MMBW) in the late 1960s and now with the Extractive Industry Interest Areas (EIIA) which are currently in place.

The CMPA is concerned that the present EIIA is of too broad a scale to use and provides no planning protection. A refinement process is required to address access, future land use and demand.

Accessible areas available at a reasonable cost to applicants under the EIIA are no longer readily available. When taking into consideration land that is sterilised through buffers 1 – 500m the other side of water courses, roads, houses, native vegetation, aboriginal artefacts, national parks and local, state and federal government overlays it has left the industry with minimal resource access.

The future land use is further exacerbated by land being rezoned for residential (i.e. of Melbourne–Urban Growth Boundary),

which has created unrealistically high land values for the extractive industry. Prices in excess of \$200K per hectare with future options are being offered for this land by developers.

The DPI needs to have an understanding of resources left under the EIIA which are proven geologically and also the future demand required by the state and industry to ensure future generations are not left without access to materials.

LEAD AGENCY

The CMPA would like to see the government perform a lead agency role and enable the central management of EIWA's. The lead agencies objectives would cover:

- A leadership role in identifying and strengthening protection of future stone resources
- Setting a value for extractive reserves (i.e. accounting for native vegetation)
- A strong stand in encouraging the presence of multiple material supply options across markets;
- Coordinating and tracking the EIWA applications and process to its conclusion within committed timelines

The lead agency would need to be adequately funded and be outcome based to ensure its capability and credibility.

REGISTRATION OF EIWA APPLICATION

The CMPA has witnessed the unfair treatment of members undertaking preliminary screening meetings for an EIWA with the information used by others to ensure any future application is made as complex and as difficult as possible. An example is where an adjoining property owner applies for a planning application to construct a house before the adjoining land has been tagged and clearly labelled as a future extractive industry asset. This occurs as a result of the information gleaned from the screening meeting.

As such when the screening meeting is held with DPI and referral agencies, the DPI should issue an EIWA number on that day. This date should then be set as the date from which the DPI enacts temporary protection of the resource against non-compatible planning decisions and protection against legislative changes.

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Site Photo – Gallis Quarry

STATUTORY ENDORSEMENT

In undertaking an EIWA application the applicant must firstly develop an attainable business plan identifying market resource and return. This plan must then have some confidence of being able to be undertaken within a reasonable period of time. As such, a commitment is required on timelines for each phase of the endorsement process.

The Brumby government and regulator introduced Statutory Endorsement which was not supported by the CMPA on the grounds that it was not proven that “additional benefits” would not be nullified through the potential increase in financial costs to its members, further restricting entry into the market. The concerns covered issues such as

- Endorsement may not be forthcoming from a referral authority which would then require the applicant to apply to VCAT
- The Initial goodwill of referral agencies to endorse may become diluted following challenges at VCAT during the Planning Appeals process

It has been drawn to the CMPA’s attention that there will be a need for increased financial support and willpower to manage and oversee this process by the DPI for it to have any chance of success.

An early commitment from the Ballieu government to support a lead agency role of the department and the Statutory Endorsement process will require a review of the departments’ resources to ensure these outcomes are achievable.

If the status quo remains the additional roles taken upon by the department and obligations on the industry will result in further restriction of entry and the continued depletion of resources.

The significance of depleting resources has been clearly identified by the CMPA and the CCAA. Numerous customers in the concrete plant and earth works fraternity have approached CMPA members in recent times pleading for access to materials. Members have also advised us that their stock levels are at historical lows.

WORK PLANS, EIWA AND PLANNING PERMITS

The CMPA feels that Work Plans (WP) should only contain a physical plan demonstrating the site’s proposed activities. All other information relating to the activities to be undertaken on site, as previously detailed in WP’s, would comply with an industry and government standard tool, i.e. Code of Practice.

This would result in a far less complicated WP and appeals process. Work Plans would no longer have to detail information that was identified in the Code of Practice. Appeals to VCAT pertaining to the WP which were specific to the code would have to recognise that industry and government accept them as a minimum best practice.

ISSUING EIWA’S

It was not many years ago that an extractive industry license was issued with a range of terms and conditions attached. In recent times this has been replaced by the EIWA which has a diminished range of conditions, title particulars and other obligations including the securing of a rehabilitation bond and is issued by the department once a planning permit has been approved and any outstanding issues resolved by the applicant.

The CMPA proposes the EIWA is structured to address:

- Title
- An agreement between the EIWA holder and the DPI that the former agrees to comply to the approved work plan and the Code of Practice, and
- Rehabilitation Bond security

For this to succeed the DPI would have to define those items required on the work plan and those required on the planning permit to ensure that duplication does not occur. If this was taken up many items which are currently required on both the work plan, planning permit and EIWA would no longer be duplicated. The outcome would mean cost savings for all parties involved.

VARIATION OF WORK PLANS

CMPA is aware that there are existing EIWA’s which will most likely never be worked out to their full potential as the WP variation process has become too onerous. Under the previous government additional obligations were placed upon the industry through the amalgamation of EIDA into the MRSDA Act.

These obligations cover issues such as the development of a community consultation management plan for new EIWA applications and any future WP variations.

Alterations on the site relating to reserve extensions would be seen as a work plan variation. As such the applicant has to consider the total cost to his business of having the variation approved.

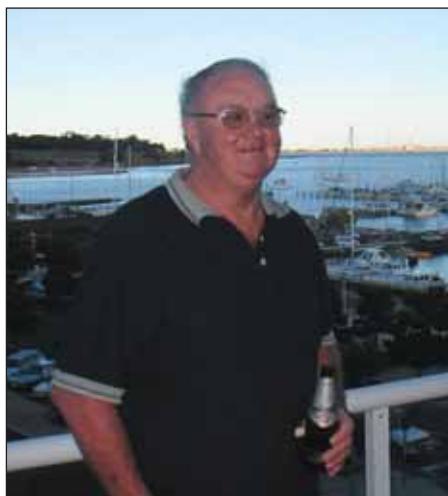
Many obligations associated with the WP variation were not in place when the applicants’ EIWA was first approved. As a result of a plethora of new obligations being placed upon the industry in the last 15 years including Native Vegetation, AAV, and community consultation, means seeking a variation to a WP is far more complex and financially prohibitive for many EIWA holders.

Exacerbating this through the WP process, is that the EIWA holder may be required to fully overhaul the WP, picking up additional obligations and losing previously negotiated hard fought gains.

As a result many EIWA holders are unwilling to undertake variations and or apply for new EIWA’s. The cost complexity and unknowns involved has an impact on decision making and makes many question their presence and future in the industry - and business exits only further accelerate resource access and availability issues. ▀

VALE – PETER LEO HOARE

The CMPA wishes to acknowledge the passing of one of Victoria's most charismatic contributors to the Quarry and Resource Industry in this state. Peter Hoare, taken from our midst at a far too early age.



Peter Leo Hoare (PLH)
Born 19th July 1942
Passed away 19th May 2011
Aged 68 years old

It is with great sadness that we report the passing of a good man, an inclusive man, a thinker, a worker and above all, a family man. Peter Hoare was another good man from an era of men who dreamed of something bigger and better while working at the coal face – and another who has unfortunately passed from our presence. The loss creates an emptiness that can never be readily filled. Peter Hoare was one of many born in better times where the dream to set up your own family business was possible.

PETER Leo Hoare was born 19th July 1942 to Bob and Dolly Hoare. Peter grew up locally in Geelong working as a tyre fitter when he first left school. It was not long before he decided to move on from this vocation and to go and help his father Bob, whom had started a local earthmoving firm in Geelong. It was from these humble beginnings that Hoare Bros. was created and expanded to be one of the most respected Earthmoving Contractors in the Earthmoving and Quarry Industries throughout Australia (servicing clients from North Queensland to Tasmania and South Australia).

One of Peter's greatest assets and legacies was his ability to make people feel at ease around him and it is something that this industry is losing. Peter was ever the innovator, forever extracting the most out of the basic everyday piece of machinery or refining the most sophisticated crushing process to help his customers and suppliers alike.

The innovations and continual improvement were accepted by all around him as part of Peter's daily focus as he was never content with accepting what the manufacturer, the sales person or what the manual represented to be the limits. Regarding the performance of any piece of machinery or process his view was if you accepted the blurb it killed any incentive to improve it, with the result being that we become complacent, compliant and dull rather than challenged so as to create a career path built on improving existing technology and thus stay ahead of the game.

The performance and the continued development of Hoare Bros under Peter's watch has been achieved without fan fare.

All being accomplished by his complete and close attention to collective, collaborative and disciplined employee involvement which has transformed the company from basically a single focused plant hirer to a multi disciplined service company providing specialised production services in the fields of agricultural lime products, recycling services, port loading and unloading services and Quarry and Mine operations including full Crushing and Gold Mining operations. Coupled with the core heart of the companies hire service's (providing the latest earthmoving to the Civil Construction and Quarry and Mining Industry), has made them a key supplier to the industry.

Another of Peter's great assets and legacies was his field trained capacity in operational problem solving and in this field he will be sadly missed, however it is to be hoped that

Peter amongst family and friends



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those students that have been nurtured by Peter's disarming, approachable and informative manner will use this training in the future development of their own career's and pass this valuable training asset on to those coming after them.

Hoare Bros typifies, and indeed is an example of what our organisation the CMPA represents, that is, relatively small, mostly family based businesses, often community centred and who by their particular enterprise provide vital infrastructure services inputs and employment to the nation which cannot efficiently be provided by public enterprise and thus if this great nation is to develop to its full potential the commitment of government at all levels should be directed to the support and continued development of these vital enterprises.

Family based businesses like Hoare Bros and many others don't just exist for themselves in order to survive they must grow in a measured way by the continual attention to the encouragement of staff to achieve a career path which cannot alone be achieved by academic process but by operational experience and development which can only come from employers that commit themselves to that tutorial role, as was the case with Peter at Hoare Bros.



Hoare Bros earthmoving equipment in action

On the job training needs the attention and the support of government and not solely be left to private enterprises to engage in it as represented by this organisation, for it may all be very well for today's learner operator to become tomorrow's supervisor and stay all his or her working life at the same organisation as repayment for loyalty and of some comfort to a grateful employer yet it never the less short changes the education process to the wider industry and therefore thought must be given to overcome the current "restricted field training" opportunities available.

Our organisation offers its sincere condolences to Dianne and the Family in their great loss and joins the industry at large in acknowledging the valuable contribution Peter made to the betterment of the industry in his relatively short time among us and wishes Anthony, Matthew and the whole crew at Hoare Bros the good fortune to continue to take the Company forward in a similar way that Peter did so successfully from Bob his father during his time at the helm. ▀



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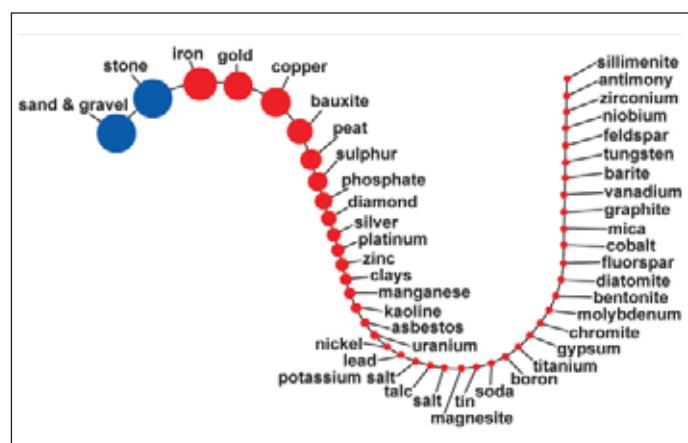
We are but a cog in a vital part of Worldwide Commerce

What is the volume of stone crushed in the United States of America or Europe?
Does Victoria produce more quarry products than either Queensland or New South Wales?

WHENEVER you read an extractives industry magazine anywhere in the world, one of the most frequently stated statistics in the magazine inevitably relates to the volumes of various products produced in the country that you are visiting. Over a period of time the figures themselves tend to become meaningless particularly if you are reading about millions of tonnes of production. However, what the statistics do show is that the worldwide production of extractives industry products is big business.

RELATIVE WORLD PRODUCTION

Excluding the production of coal, shale and uranium, sand and gravel and crushed stone are the number one and two ranked earth resource worldwide in terms of both amount and value.



Mining is important for countries like Australia because of the import dollars it brings into Australia. However for the domestic market the extractives industry is a vital part of our ever day life. Whether it be the house we live in, the roads we travel on and the buildings we work out of, our material existence is dependent on the products from the extractives industry.

With the annual consumption of extractives industry products around 10 tonnes per person per year in Victoria it is very easy to calculate what quantities of material will be needed each year for the foreseeable future. With our current population around 5,586,000, Victorians will use approximately 55.9 million tonnes of extractive industry products this year, (it is estimated that 15% of this is recycled material and product from mobile crushers).

Many people in Victoria are concerned at the approaching shortage of quarry products available around Victoria but in particular, for the Melbourne Metropolitan area. For example has the Government and construction industry considered a life without the quarry at Montrose. The CMPA document *An Unsustainable Future* details quite clearly what and where the shortages of products will be. Both the construction and extractives industry need to keep reminding the "powers to be" that Victoria does face a serious problem and that we need to address it now. Given the current lengthy timeframes imposed by the state and local government bureaucracy to go from the initial planning to actual production of quarry products and unless there are major changes imposed by the new state government, the availability and cost of extractive industry products will be a major concern to all in the not to distance future.

All people involved in the extractives industry need to be very proud of our industry. It has been going from strength to strength over many years despite all the challenges imposed by the deluge of regulation being imposed upon it and by the many downturns in financial activity in the State. We need to ensure that every Victorian is well aware of the significance of this industry to the state. ▀

Thanks to Astec Australia Pty Ltd for supplying the image shown.
Image is courtesy of USGS, modified after Lawatscheck, 1990

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Monitoring Plant & Equipment's Condition

PETER VUCINIC, from Computerised Bearing Analysis (Aust.) Pty Ltd reports in a series of articles on the various technologies used in order to determine equipment condition.

I would like to impart some of my experiences over the past 25 years in the condition monitoring field, that I hope will enable you to gain a better understanding of condition monitoring and how it can benefit plant and ultimately your businesses bottom line. I will be discussing various techniques over a number of issues that will assist you in saving hard earned dollars from disappearing into unnecessary repairs and downtime.

Everyone from management to operators should be able to comprehend the methods involved, processes and what we are trying to achieve working together. There is no need to thoroughly understand each individual method in totality.

Although this may seem like a daunting topic and that sometimes we say the "I'm too busy and don't have time to add another check to my plants operation." Hopefully I will be able to change your mind?

You will undoubtedly be doing condition monitoring each and every day without you even realizing that you are doing it! Not convinced? If you arrived at work today in a vehicle, and it didn't stop on the way, or the engine didn't self destruct on you, then you did some condition monitoring. You would have checked the fuel gauge and made sure there weren't any red lights blinking at you on the dash. Condition monitoring done! Congratulations you have passed the entry exam to Condition Monitoring (CM)!

It is only the complexity of the CM technique that will change. The basic fundamentals of checking equipment to ensure it is fit for use will not alter.

WHAT IS CM?

It is used to measure the health of a machine by routine monitoring and analysis. CM uses various technologies in order to determine equipment condition, and potentially predict failure. Some of the common technologies that you're most likely to see at your site are:

- Vibration Measurement and Analysis
- Infrared Thermography
- Oil Analysis and Tribology
- Ultrasonic's
- Motor Current Analysis

Faults will develop within plant regardless of even the most thorough scheduled maintenance with often-undetected faults leading to unexpected failures. CM allows us to minimize our exposure to risk of unexpected failure and consequential downtime.

WHY DO WE NEED CM?

After we get past the obvious answer; 'to stop things breaking down when we least expect it', there are many more real and tangible benefits. But the biggest impact on your business will be that CM puts you in control, allowing you to be pro-active in preventing breakdowns, helping you avoid unplanned shut downs and allows you to optimize maintenance resources.

Company management will embrace CM because it allows asset effectiveness. From the company perspective, they simply need to extract maximum profits from minimum investment in plant. There is no downside to implementing CM as it is a mutually beneficial arrangement between the company and plant operations.

The other factor that has 'crept' its way into all fascist industry today, but more so in the extractive minerals industry is insurance. This has seen the escalation and need for sites to conduct risk assessments on plant and equipment every 2 years to establish what actions the client is taking to ensure they are limiting their exposure to any and all financial loss in relation to equipment failure and interruption to production.

How do we achieve plant operational improvement using CM technologies?

- By improving equipment reliability through the effective prediction (and then avoidance) of equipment failures
- By minimizing downtime through the integrated planning and scheduling of repairs indicated by various techniques.
- By maximizing items life by avoiding the conditions that reduce their life (eg by ensuring ongoing precision alignment, minimal lubricant contamination etc.)

EXAMPLE OF USING CM

'How does that relate to my plant?' I here you say. I hope to demonstrate how you can utilize many of the CM methods on your equipment to give you a tangible benefit. Humans are very basic in nature and a basic concept is 'if it doesn't benefit me, why on earth would I do it?' We've all said it at some stage

I hope to show the 'benefits' in the following example that uses two of the CM methods available to us (vibration & infrared thermography) used in conjunction to complement each other to enable us to 'build a better picture' of the machines true operating condition.

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I chose this example to begin with, as it contains one that you are most likely more familiar with. However, you may not be familiar with my application. Evaluating and diagnosing primary jaw crushers and its bearing operating condition is a core part of my business. I'm a firm believer in using whatever I have in my 'tool box' to assist me in doing this. By not limiting yourself to the 'accepted' methods to assess machine condition, a much better 'operating picture' of the machine can be achieved.

How we benefit from combining techniques:

- Actual machine current operating condition certainty of diagnosis increase
- A holistic view of the machine health and a good understanding of 'what is occurring' are gained

Infrared Thermography

Most people in our industry now are familiar with infrared thermography and accept this technology readily. You may already have some conducted at your site for switch boards/ circuit breakers etc.

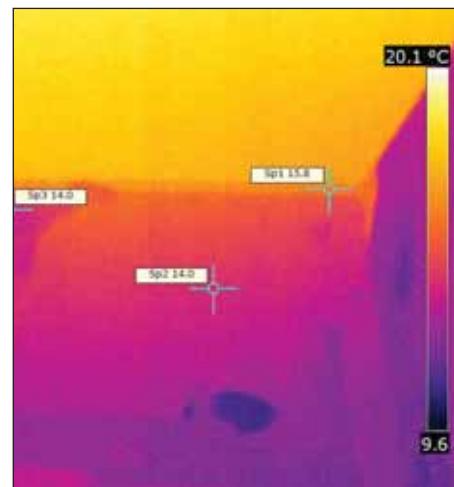
My example looks specifically at the operation of one of the key components of the primary jaw crusher and how this can be detrimental to the overall operation and long term health of the machine. This example highlights the importance of:

- Proper toggle, swing jaw and toggle block alignment
- Ensuring toggle and toggle seats are in serviceable condition/rocking correctly
- Correct toggle spring tension/adjustment

I deliberately used infrared thermography as an easy way to 'paint' a picture, showing that the primary jaw was not operating as 'smoothly' as it should and that there was a problem in the toggle operation.

Vibration

To reinforce the initial thermal images, vibration measurements were collected on the main frame bearings to ascertain the



The right hand side of toggle and seat shows a greater amount of friction and therefore heat from approximately the midway position of the toggle.

severity problem and to gather data for future comparison etc. This issue was seen as 'high' energy levels on the right hand side, main frame bearing, with greater than 'normal' mechanical forces were being transferred to the main frame bearing. These unnecessary higher forces, if allowed to continue for extended periods of operation, have real potential to reduce rolling element bearing life. If lack of lubrication or insufficient lubrication is added to this mix, it will undoubtedly spell disaster for the bearings.

High energy and/or unnecessary impacting forces acting on crusher main frame bearings can have detrimental physical effects such as:

- Reducing the quality of lubrication to the bearing and/or bearing components
- Artificially raise bearing temperatures through mechanical overloading
- Increase the likelihood of metal to metal contact of bearing surfaces which can lead to premature bearing failure

Pictures are universal, there is no need to have any technical knowledge to decipher a picture. Explaining vibration theory and

concepts such as acceleration, impact levels and its consequences, did not seem the easiest way for me to convey the problem.

The above photographs will enable anyone in the plant to easily understand the effect of an improperly aligned, worn, maladjusted toggle and seat. With the simple concept in mind that 'cool is good' and 'hot is bad', we all naturally make the connection between heat and stress, so when you look at the photographs, I think your mind naturally and easily makes these conclusions.

As can be clearly seen, toggle and seat shows mechanical forces/pressure being exerted predominantly on the right hand side. This is represented by the 'warmer' orange in the infrared image. ▀

For more information Peter Vucinic can be contacted on (03) 5441 2348.



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WORK HEALTH & SAFETY MANAGEMENT SYSTEMS

One of those cliches often used is "do you want the good news first or the bad news". Irrespective of your response the news is just something that you do not want. BRUCE MCCLURE, CMPA's General Manager reports on the introduction of Work Health and Safety Management Systems to Extractive Industry Sites

FOR many in the extractives industry in Victoria the bad news is that on the 1 January 2011 (current timeframe) it appears that it will become compulsory to have a Work Health and Safety Management System (WHSMS) in place for each quarry.

Let's recap how and why this proposed WHSMA has come about. In the *Sand & Stone* issue 52 (August/September 2010) Tom Kerr formerly of Conundrum Holdings reported on the National Harmonisation of OH&S Laws. Tom went on to state that a commitment by the Commonwealth, state and territory governments to the harmonisation (agreement or accord) of work health and safety laws in Australia would 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.

It has been stated by the departments involved that 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 and 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

It is claimed that 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.

Tom finally went on to report that 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.

So let's return back to our article. As most in our industry will ask, why the need for a WHSMS at every extractive industry site? There is no evidence to suggest that the current practices of industry and the requirements of the regulator are not sufficient, are not working or just no longer appropriate. Yet we have a situation where further regulation, further red tape is going to be required at a substantial cost to each member of the industry. Maybe for some in the industry the costs and benefits of the proposal are considered reasonable and needed to ensure work safety. For others particularly the smaller privately owned businesses, the impost of their businesses will be pronounced, may not be easily complied with and I would suggest not welcomed at all.

Bruce McClure, General Manager recently attended a meeting of the WorkSafe Earth Resources Tripartite Safety forum where the proposed draft *Harmonised Mining Regulations* and draft *Code of Practice* for the Work Health and Safety Management Systems in Mining document was discussed. Following this meeting the Secretariat wrote back to WorkSafe stating the following.

"The extractive industry sector in Victoria of which over 200 are small to medium businesses has been drawn into this system without

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Site Photo – Allstone Quarry site tour

any consultation or consideration. Some of the bigger multinational companies who have operations across multiple states may have been involved, but as far as we are aware none of the privately owned quarries in Victoria were given the opportunity to comment on either document. To impose such a system on the industry without prior consultation is going to lead to considerable angst amongst our members”.

The CMPA letter then went on to mention members concerns “that the draft code loses its impact and credibility to our members

as it talks explicitly about mining for the overwhelming majority of the text even though in Victoria the extractive industry is bigger than mining (excluding coal). The only mention and reference to the extractives industry is in one section (section 1.2) and the majority of text does not relate to the extractives industry”.

The CMPA letter further stated that “the model put forward in this code is not representative of the risks, nature and activities that take place in a quarry”.

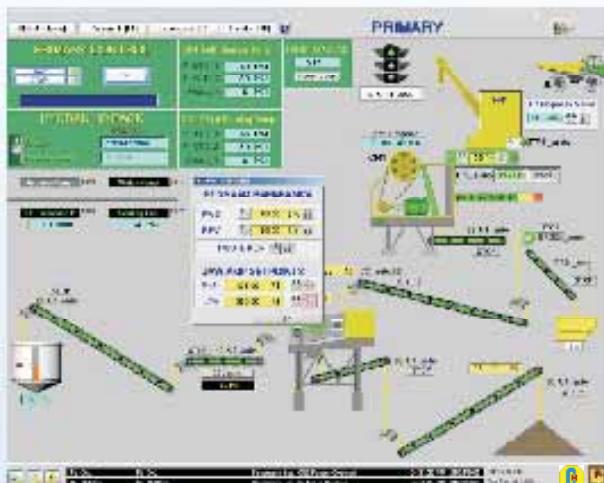
The CMPA also suggested that the Department “considers the adoption of implementation thresholds for the application of elements of the WHSMS”. The CMPA attached a copy of its Site Manager Classifications which it suggested could be used as a starting point for discussion on the minimum elements required for different quarry sites.

Given that the introduction of the WHSMS appears to be a fait accompli and in the interests of our members, the CMPA has indicated that it would like to work with WorkSafe on this code of practice or, preferably an extractive specific document to ensure the best possible outcome.

The CMPA is now waiting upon a response to its comments. Once there is a clearer picture regarding the code of practice document the organisation will decide what future documentation and training my need to be put in place to ensure all members can comply with the new requirements whatever they finally end up being. ▪

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The 2011 Annual Dinner

The 2011 Annual Dinner is almost upon us, here is a last minute update by GAVIN MOREIRA, Administration Officer, CMPA.

WHO is up for a fun night or an enjoyable weekend away? If the answer is yes, then a reminder the CMPA 2011 Annual Dinner is now only weeks away. The picturesque towns of Echuca Moama is the destination, the newly refurbished Moama Bowling Club is the venue for what will be a fantastic night of entertainment. The Secretariat is now applying the finishing touches to what will be an enjoyable weekend for all members and their guests.

The Annual Dinner; which will now incorporate the CMPA Annual General Meeting will be a great night to catch up with old friends, network with fellow members and meet new people with the same interests. You will be wined, dined and entertained with beautiful music from solo artist Brendan James. There will also be an opportunity to get your caricature drawn from cartoonist Tony Bramwell or win a prize at the silent auction.

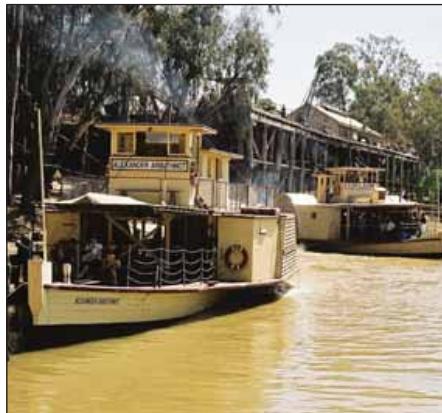
This year the CMPA has organised extra activities for members and their guests across the weekend to participate in including paintball, a nine hole round of golf and a one hour paddle steamer cruise on the Murray. A great way to socialise and create team bonding skills with your employees/staff.

I look forward to meeting and greeting you all on the night. ▪

*Don't miss out on a fun filled weekend.
RSVP Closes on 12th August 2011*

PROGRAM OF EVENTS

Saturday 27th August 2011	Time
Splat Attack Semoz Paintball Venue: 594 Old Deniliquin Rd, Moama Cost: \$49 (inc. equip. hire & 200 paintballs)	12.00pm
Pre Dinner Drinks Venue: 'The Pavilion' Moama Bowling Club Cost: Inc. as part of the Dinner	5.30pm - 6.30pm
Annual Dinner (incorporating the AGM) Venue: 'The Venue' Moama Bowling Club Cost: \$95	6.30pm - 11.30pm
Post Dinner Drinks Venue: 'Piano Lounge' Moama Bowling Club Cost: Drinks at bar prices	11.30pm - 1.00am
Sunday 28th August 2011	Time
Breakfast Venue: Star Hotel, 45 Murray Espd, Echuca Cost: \$20 (Main meal & beverages)	8.30am - 10.30am
Golf – Ambrose Event (9 holes) Venue: YMCA, Cnr Eyre & McKenzie St, Echuca Cost: \$14 Green Fees Only	10.00am
Paddle Steamer Cruise Venue: Port of Echuca, 52 Murray Esp, Echuca Cost: \$18.90 per adult	10.15am - 11.15am



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Staying safe is a team effort

BRUCE MCCLURE General Manager of the CMPA comments on the topic that the health and safety of employees at each works site depends on each and every one of us.

The life of a quarry manager in our modern society is extremely busy. Not only does he or she have to ensure that the equipment on site is functioning to its maximum capacity, is being well maintained and working within the limits specified but he/she also needs to ensure that the safety of every person working or visiting that site is paramount. But, it is not their responsibility alone.

How each extractives industry site ensures the health and safety of its employees will obviously vary from site to site as very few sites have exactly the same equipment, the same topography and extract the same products. Never the less, the community through WorkSafe Victoria requires minimum standards to apply right across the state irrespective of where the business it is located, and what there modus operandi is.

One of the great benefits of the computer age is that we can gain access to considerable information fairly quickly. All the relevant regulations can be downloaded from the WorkSafe website (www.worksafe.vic.gov.au) and considerable information can also be downloaded on a multitude of issues relating to health and safety on worksites. For example one can quickly see where the most common injuries and hazards are currently for employees in our industry or you can obtain guidelines on how WorkSafe applies the law in relation to identifying and understanding hazards and risks on work sites.

I realize that not all sites or extractive industry operators have access to the web but all of the information can be sent out by post if one asked the department.

The CMPA secretariat can also access and supply much of this information if requested by members. It only takes a phone call!

This article is not about the merits or otherwise of the regulations, the requirements of WorkSafe Victoria. What it is saying is that there is no excuse for not knowing what the current requirements are that each and every extractive industry site in Victoria must comply with.

Organisations like the CMPA can provide assistance in obtaining information if requested but in the end, the health and safety of each employee at a site is the responsibility of every employee at that site and not just the quarry manager. ■

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Maintenance around Explosive Magazines

DARREN WATSON, Senior Field Officer, WorkSafe Victoria has been undertaking visits to quarries across the state and a common issue that has been identified is general maintenance around explosives magazines.

DUE to changes in processes many quarries no longer use their explosives magazines on a regular basis, as contract blasting contractors are engaged who bring the required explosives to site as needed.

Many quarries still have their explosives magazines licensed with WorkSafe Victoria, and as such the explosives magazines are required to be maintained in accordance with the requirement of the *Dangerous Goods Act 1985*, the *Dangerous Goods (Explosives) Regulations 2000*, and the associated Australian Standards.

Issues that have been identified are outlined as follows:

Mounding of Magazines

Mounding has been found that has been degraded by weather, which has lead to compromised mounding heights and has exposed stones and rock which may have been used for the sub-base of the mounding construction.

Earth mounds around magazines should stand at least 300mm above the height of the explosives stored in that magazine, and should be substantially free from stones.

General Fire Precautions

There have been many instances where magazines have been found that are surrounded by combustible materials, such as, grasses, small tree branches, and used packaging materials.

Used explosives packaging must be disposed of in correct and timely manner, and



Explosive Magazine on a quarry site

extraneous combustible materials must be kept clear from explosives magazines to a distance of 6 metres.

Markings on Explosives Magazines

Signage has been found on explosive magazines that are faded, incorrect, and not located in the correct position in the magazine area. The name and address of the licence holder must be kept up to date, and be located at a conspicuous point on the outside of the magazine.

Signs need to be replaced when they become faded. Signage must be in red letters on a white background with the words "Explosives Detonators" or "Explosives" as appropriate. A Class label not less than 250mm square must be displayed which show the Hazard Division or the determined collective Hazard Division if more than one Hazard Division of

explosives is stored. If a security fence is provided the Class Label must be located at the gate of the fence facing out.

Provision and maintenance of Safety Equipment

Fire extinguishers have been found that have not been tested in accordance with the required Australian Standards, signage for the fire extinguishers have been faded or missing.

Fire extinguishers must be of the appropriate capacity and type 2A 60B(E) Dry Chemical or 2A 20B Water or Foam. Extinguishers in magazine areas must be correctly maintained, and signed. Fire extinguishers should be mounted, and not located on the ground.

Security Fencing

Fencing has been observed that is not correctly constructed, is damaged, and is not adequately secured.

Fencing where required must be 2 metres high and be provided with three rows of barbed wire. Fencing may be provided to form a top for the magazine compound.

Lightning protection

There have been identified instances where lightning protection provided has been inadequate or missing.

Lightning protection must be provided and maintained in accordance with the requirements of AS 1768. ▀

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What are the benefits of workforce training?

STACEY CLARK, Course Coordinator – Mining at the Bendigo Regional Institute of TAFE (BRIT) discusses the benefits of training being conducted within the extractives industry.

THE benefits of training are numerous and cover increased productivity and compliance to a reduction in lost time injuries and decrease in absenteeism. The benefits include:

- Minimising staff turnover and recruitment costs
- Increasing workforce flexibility, enabling it to engage in a wider range of tasks and responsibilities
- Improved staff attitude and morale, decreasing the occurrence of work related stress and improving the overall work environment
- Keep up to date of industry changes, technological advances and new industry legislation
- Increased productivity due to trained staff being more efficient at their jobs

Recent research by Chief Researcher John Rice from the National Centre for Vocational Education Research (NCVER), refer NCVER Insight Issue 42 June 2011, backs up these claims. He found that training maintains and renews the capability of employees while extending the ability of the organisation to adopt new knowledge and technologies from outside the organisation. Training also has the “soft” benefit of improving morale.

The research was based on data from the Australian Bureau of Statistics. It modelled the effects of training on sales growth for small-medium Australian manufacturing firms and concluded that when the training is aligned to the organisations approach to innovation that the training clearly influences sales growth and profitability.

According to other NCVER research (Smith A, 2001, Return on Investment in Training: Research Readings, NCVER), the benefit in productivity can be as much as 230% for staff who receive formal training compared to untrained colleagues who are working in the same role.

The Bendigo Regional Institute of TAFE (BRIT) is very keen to work with the extractive industry to develop courses that are required for your businesses to enable them to develop and

prosper within an increasingly competitive market. Following representation from the CMPA, BRIT is developing a “Collect and prepare samples” course which will allow sampling to take place at a quarry site for testing at an authorised laboratory either on or off site.

BRIT is also developing a course on “Conduct laboratory based acceptance tests for construction materials”. In both instances BRIT has prepared draft workbooks for the courses and has sent them to various authorities including the CMPA for comment. The CMPA in turn is continuing its discussions with VicRoads and NATA to ensure that the resulting training courses address at least their minimum training standards.

Both units would be able to be used by a person undertaking training within Certificate II, III or IV in Surface Extraction Operations, depending on the other units they have undertaken.

BRIT believes that the course could be delivered over three days, one day for collect routine site samples and two days for conduct laboratory based acceptance tests for construction materials. The cost would be approximately \$350 per person assuming that a minimum of twelve people undertake the course. Provided that feedback on the draft workbooks is received quickly, BRIT could start delivering the course within the next couple of months. ▀

If you or your staff would be interested in attending this course, or would be willing to review the workbooks, please contact either:

*Stacey Clark, Course Coordinator – Mining, Bendigo TAFE,
Phone: 03 5434 1653
Email: sclark@britafe.vic.edu.au*

*Gavin Moreira, Administration Officer, CMPA
Phone: 1300 267 222
Email: enquiries@cmpavic.asn.au*

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Managing Hazardous Substances – Hot Works

Hazardous substances are those that may be harmful to human health. Below is an extract from the CMPA's "Work Safely Reference Manual" providing handy hints on managing hazardous substances on your site especially Hot Works.

IT is the responsibility of the Supervisor or employer to identify, assess and control the hazardous substances on site in accordance with Part 4.1 of the *Occupational Health and Safety Regulations 2007*.

Hazardous substances that may be present on site include:

- **Liquids** such as solvents, paints, adhesives, oils, greases and degreasers. In some cases, chemicals found in these products can enter the body through the lungs or skin or can be ingested.
- **Solids and dusts** such as concrete, fibreglass insulation, asbestos and certain types of crushed rock can cause skin conditions such as dermatitis, burns, skin cancer and changes in pigmentation. If dusts are inhaled over

extended periods of time they can lead to respiratory irritation and in some instances cancer.

- **Mist** can be produced through spraying materials such as paint and pesticides or through condensation of gases in the air. Some mists, if inhaled, can cause respiratory or other diseases. Contact with some mists can cause damage through skin contact.
- **Gases, smoke and fumes** can be produced during welding or soldering, or through petrol or diesel emissions. Health effects from gases can include narcosis, respiratory diseases, cardiovascular diseases and skin, eye and throat irritation.

- **Vapours** are gases formed when solids or liquids evaporate. Paints, solvents, adhesives and petrol can produce dangerous vapours. Vapours can cause dermatitis and, if inhaled, cause a variety of effects such as liver damage, narcosis and cancer. Many vapours, particularly those of solvents and petrol are flammable.

To manage hazardous substances, it may be appropriate to consider the following.

Supervisor to consider:

- Remove unnecessary hazardous substances from the site
- Ensure safety support equipment and materials recommended on the MSDS are held on site as appropriate (i.e. PPE, emergency containment)

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- Maintain tools and equipment that have internal combustion engines to ensure exhaust fumes are kept to a minimum
- Contractors need to bring a copy of the MSDS for any hazardous substance to be used on site, inform your Supervisor prior to use and obtain any required permits
- Always obtain the MSDS for chemicals or hazardous substances used on site, these should be held in the company library.

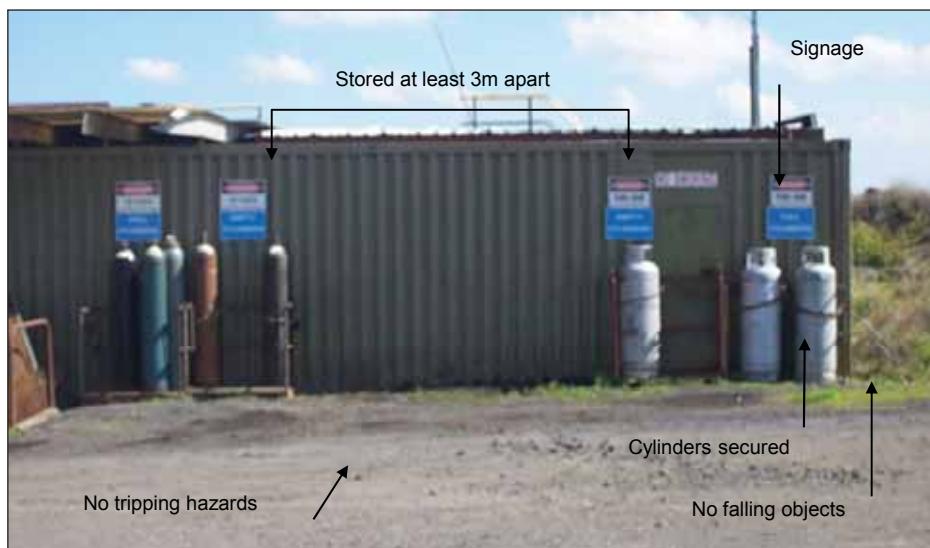
Employee to consider:

- Limit contact with hazardous substances by changing work processes and using required PPE
- Always read warning labels and make yourself familiar with the MSDS, site Risk Assessment and any other SWMS designed to manage hazardous substances
- Always wear PPE specified in the MSDS for the type of material being used
- Only perform activities which release hazardous substances in well ventilated areas
- Do not use petrol, diesel or gas powered equipment in restricted or poorly ventilated spaces
- Never weld or use ignition sources in areas where solvents are being used
- Do not work with material containing asbestos, if you suspect asbestos, contact your Supervisor
- Take care not to spill hazardous liquids, if you do, inform your Supervisor immediately and clean up any spills in accordance with the MSDS
- Never decant chemicals into unlabelled containers
- Store hazardous substances in accordance with OEM specifications
- Ensure all fluids are stored in approved and clearly marked containers

HOT WORKS

Only trained people can undertake welding, braising or cutting. Consider the unit 'Perform Basic Cutting and Welding'.

Welding can cause burns from radiation or electric shock, nausea from fumes generated during welding and burns from ignition sources. Ultraviolet light produced during arc welding or cutting can cause damage to eyes, such as 'arc eye' or 'eye flash'. The infrared light and heat produced during welding can cause skin burns, burns to eyes, cause cataracts and changes in skin pigmentation.



Welding Equipment Safety Requirements

Due to the high risk nature of this task, specialist training is recommended. In addition, some controls that may be used include:

- Only trained and competent persons should use electric welders and oxy braising and cutting equipment
- Wear appropriate PPE including skin coverings and face shields with eye filters
- Shield or screen welding operations from others
- Ensure adequate exhaust fans or ventilation systems are in place before commencing work and utilise a correct, well maintained filter
- Ensure flashback arrestors are fitted to the outlet side of both oxygen and acetylene regulators and the handpiece
- Fire extinguishers should be available
- Wear respiratory equipment where needed
- Examine the work area for fire or explosion hazards before commencing work. Where there is a risk hot work will result in a fire or explosion a 'Hot Work Permit' is necessary (available from the CMWA). This includes areas such as work on a fuel tank, work in a confined space and work in areas containing flammables or combustibles, before work commences
- Inspect welding equipment before use and report any defects
- Conduct regular safety audits on equipment and associated cylinders
- Store welding equipment in designated areas, maintaining required separations

WELDING FUMES

Welding produces a wide range of dangerous fumes. This includes known carcinogens such as beryllium (from aluminium and magnesium alloys), causes of metal fume fever such as cobalt, and other toxic substances such as cadmium, chromium and lead. These fumes can be both odourless and colourless.

In addition to complying with the individual exposure standards for specific contaminants, the fume concentration in the breathing zone (which is inside a welder's helmet when a helmet is worn) should not exceed 5 mg/m³ TWA. ▀

For more information see the website www.wtia.com.au or search for 'welding fumes' on the website www.ascc.gov.au

Only trained people can undertake welding, braising or cutting.

Consider the unit 'Perform Basic Cutting and Welding'.

VLPA Update

PETER MCCLUSKY provides an update on the Victoria Limestone Producers Association.

WESTERNPORT FIELD DAYS

VLPA recently worked with Westernport Catchment Landcare Network on two very successful field days covering the subjects of soil pH and soil carbon.

The first field day was held at French Island and the second at Poowong North. The days were organized by Peter Ronalds, Sustainable Agriculture Project Officer from the Westernport Catchment Landcare Network (WCLN). This body has funding from the Commonwealth Government's Caring for Our Country program, similar to WestVic Dairy in Terang, to promote soil health amongst the farming community in its region.

The French Island field day attracted 35 participants and 65 attended the Poowong North day. Tim Johnston from DPI Geelong spoke on the need to monitor and protect against the dangers of acidic soils and the need to apply lime at suitable levels to ensure the best possible pasture growth. Soil cores were taken at the sites to illustrate the different colours and composition of soils at various depths. A number of lime samples were displayed and the role of VLPA in relation to product testing was explained and VLPA membership information was provided.

Peter Ronalds of WCLN presented on the results of 40 farms that have been pH and carbon benchmarked (generally soils need to have a pH of 5 or above) in the region over recent months and also Jess Horton from DPI spoke on soil carbon.

VLPA will continue to pursue opportunities to work with agricultural and soil health extension bodies to promote our product. During 2010 and 2011 so far, we have co-operated with Southern Farming Systems, Glenelg-Hopkins CMA, Perennial Pasture Systems, North East Catchment Management Authority, WestVic Dairy and Westernport Catchment Landcare Network in delivering programs which have involved promoting the use of agricultural lime.

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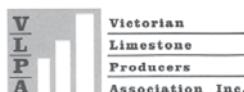
Tim Johnston of DPI explains soil testing procedures to the audience at one of the recent field days at French Island and Poowong North.

MURRAY-DARLING BASIN PLAN

Two Federal parliamentary enquiries, to which we made submissions together with NAA, have recently handed down reports on their findings. The House of Representatives Standing Committee on Regional Australia, was inquiring into the impact of the *Guide to the Murray -Darling Basin Plan*. In essence its 21 recommendations are around more scientific work needed along with more rigorous assessment of impact on communities. The Senate Committee looked at the more specific problem of the Water Act and recommended it be amended to optimize economic, social and environmental considerations. This is in line with our position and would ensure that use of water for economic purposes (agriculture) is not automatically subservient to environmental allocations. There will be a fair bit of "water under the bridge" before the outcomes take effect.

REGULATORY MATTERS

There is an upcoming Victorian Parliamentary enquiry into the benefits and drivers of and barriers to greenfields mineral exploration and project development in Victoria which we will be participating in. The review of the Act and regulations relating to minerals and extractive industries in Victoria is continuing. ▪



For further information contact
Peter McCluskey 0408 496 588

INDUSTRY SPECIFIC CREDIT TERMS & CONDITIONS

Does the industry have specific Credit Terms and Conditions of Trade? Wouldn't it be invaluable for all members to have a similar template in which to provide to their customers?

Following discussions with CMPA members and others there is a requirement for a resource / reference tool pertaining to Credit Terms & Conditions of Trade which addresses the following:

1. Application
2. References
3. Terms & Conditions of Trade
 - a. Payment
 - b. Ordering obligations
 - c. Delivery obligations
 - d. Quarry site obligations

To date the CMPA has spoken to ten Members who have provided information on their existing documentation and have sought their advice and direction on the issues they face and the outcomes they would see as appropriate.

A steering committee is being set up to review, 'what is the expectation of an industry specific Credit Terms and Conditions of Trade document'.

The Secretariat is currently seeking input from as many Members as possible into the development of this much needed resource which will continue to enhance and improve your business.

Please contact the Secretariat to obtain further information or email your responses to enquiries@cmpavic.asn.au

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Increased wage rates for Modern Awards

Fair Work Australia (FWA) has handed down its 2011 Annual Wage Review Decision.

GAVIN MOREIRA, Administration Officer, CMPA reports on the changes to wage rates and allowances.

IT'S the start of a new financial year; please ensure your employee wages and allowances have been updated.

Fair Work Australia's 2011 annual wage review, which takes affect on the first full pay period on or after the 1st July 2011 has delivered an increase to the Modern Award weekly rate of 3.5%.

Be aware that the new minimum wage rates payable under all Modern Awards have been updated. This includes the Quarrying Award 2010, Premixed Concrete Award 2010 and Road Transport and Distribution Award 2010 just to name a few.

Please see below for new minimum wage rates and allowances payable under the Quarrying Award 2010 and a comparison with last year's rates.

A full-time employee must be paid a minimum weekly rate for their classification as set out in the table above.

The following allowances have remained the same from last year.

- Leading hand/in charge of plant
 - In charge of plant
(2.18% of the standard rate per week)
 - In charge of less than 3 employees
(2.18% of the standard rate per week)
 - In charge of 3 to 6 employees
(3.04% of the standard rate per week)

WAGE RATES APPLICABLE TO THE QUARRYING AWARD 2010

Classification	2010 Minimum Weekly Rate	2011 Minimum Weekly Rate	Difference per Week
Grade 1	\$569.90	\$589.30	\$19.40
Grade 2	\$586.00	\$605.90	\$19.90
Grade 3	\$625.40	\$646.70	\$21.30
Grade 4	\$644.20	\$666.10	\$21.90
Grade 5	\$663.60	\$686.20	\$22.60
Grade 6	\$684.10	\$707.40	\$23.30

- In charge of 6 to 10 employees
(3.78% of the standard rate per week)
- In charge of more than 10 employees
(6.0% of the standard rate per week)
- Industry allowance – 3.25% of standard rate per week
- First aid – 1.9% of standard rate per week
- Use of own vehicle - \$0.74 per kilometer
- Payment for wet weather – if too wet for normal duties, paid for all time lost
- Protective clothing – up to 2 pairs of overalls and safety boots, demonstrated costs of laundering and reimbursed cost of tools and appliances
- Overtime – work outside of the normal daily working hours will be paid at time and half for first 2 hours and double time beyond that. ▪

To obtain a copy of any Modern Awards please visit the Fair Work Australia website www.fwa.gov.au to download a pdf copy

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DPI Update

IAN MCLEOD, Manager Minerals and Extractive Operations, Melbourne District, discusses coping with a staff skills shortage in the future.

THE earth resources industry is booming in Australia, providing benefits for all Australians and is expected to continue to grow for the foreseeable future. Unfortunately the boom is placing significant pressures on the ability of operators and regulators alike to achieve their objectives due to the difficulty in obtaining and retaining suitable staff. Skills shortage is becoming a major issue and the difficulties with staff recruitment and retention can only worsen as the resources industry continues to expand.

Mine operators seeking experienced personnel for their sites firstly try to source them locally. However, if unsuccessful, try to poach them from anywhere they can. It's no surprise that well trained extractive industry staff and regulators can become a prime target for these operations. Consequently, the Victorian extractive industry and the Earth Resources Regulation Branch (DPI) need to carefully assess future manpower requirements and plan to ensure that adequate expertise is held to achieve objectives.

John Mitas and I attended the Melbourne Mining Club seminar on 9 June 2011 where Caterpillar Global Mining provided a presentation on how the manning shortage could be managed by the introduction of new autonomous mining systems. Whilst the quarrying industry is unlikely to see the introduction of such radical changes in the short term, it is possible that this

technology could be introduced in the long term after it has been tried and proven. Until such breakthroughs occur, it will be necessary for quarry operators to devise other ways of dealing with the problem. It is suggested that the best way of doing this for the foreseeable future will be to continue to compare staff competencies with expectations and ensure that any gaps are filled with appropriate training.

As mentioned above, DPI is also affected by the reduced availability of experienced staff to regulate the earth resources industries and consequently, provides regular training programs to develop expertise. Another way for DPI to tackle the issue is to try to simplify the way we regulate. DPI is working on this with the CMPA and the CCAA with the intention of reducing red tape. Please refer to the discussion papers at the following website:

<http://new.dpi.vic.gov.au/earth-resources/whats-new/review-of-the-mineral-resources-sustainable-development-act-1990>

I encourage you to read these discussion papers, discuss amongst yourselves and provide comments to Bruce McClure, who is coordinating CMPA feedback to the workshops. This is a rare and significant opportunity to assist in developing improved legislation in the quarrying sector.

STAFF NEWS

Wendy Vella (Born 6 February 1966) sadly passed away on 27 May 2011 after a lengthy

period of illness. The funeral was held at Springvale on 1 June and was well attended by industry representatives including CMPA members. Wendy was an Inspector of Mines in the Melbourne District and a valued member of the Earth Resources Regulation team and will be greatly missed.

John Mitas (Chief Inspector of Mines and Quarries) is continuing to manage the Department's response to the ground movement at Morwell which has resulted in the temporary closure of the Princes Freeway. Colin Thornton, Manager Minerals and Extractive Operations (North East District) is now acting in the role of General Manager, Minerals and Extractive Operations.

David Whitehouse, has been appointed to replace Mike Mathews in Benalla and will be commencing work with us on 18 July 2011. David has been working as Program Leader with the EPA in Wangaratta and holds significant experience in the regulation of natural resources.

Jason Fothergill, Senior Inspector of Mines (North East District) resigned effective 27 May 2011 to accept the position of Mine Manager at the A1 mine. Vicky Alivanoglou, Senior Project Officer, Sustainability Unit, resigned effective 7 June 2011 to accept a position with Worley Parsons.

We wish Jason and Vicky all the best for the future. ▀



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Groenveld's continuous

MICHAEL GRACIE, General Manager of Groeneveld Australia provides a report on the automatic maintenance systems specialists.

GROENEVELD ON WORLD-WIDE FRONT

Groeneveld Group, supplier of automatic maintenance systems, and active safety systems for transport and earthmoving, celebrated its fortieth year anniversary on the 11th of May this year. On the occasion of this anniversary, the Groeneveld Experience Centre was established at the head office in Gorinchem Netherlands, where customers, dealers, importers, manufacturers and other relations from all corners of the world, become acquainted with the products and services of Groeneveld in a pleasant ambiance.

Ever since the foundation of Groeneveld in 1971, the company has grown to become a globally operating company with more than 500 employees, over thirty locations in more than twenty countries, a modern factory in Italy and development centres in the Netherlands, Israel and Italy. Groeneveld delivers automatic greasing systems, Oilmaster oil management systems and Greensight active safety systems, both for the aftermarket and to a large number of leading manufacturers of trucks, trailers, buses and earth-moving and construction equipment.



Groeneveld Australia's new premises located in Sunshine West

AT HOME WITH GROENEVELD

In mid 2009, Groeneveld Australia Pty Ltd underwent a change of management and restructuring. During this time Michael Gracie became the new general manager and the new management team made a unanimous decision that in order to better serve our growing customer base, it was important that Groeneveld relocated to more suitable premises that would make us more accessible to our customers.

After a couple of months of extensive searching and research, a suitable property at 268 Proximity Drive in Sunshine West was found. Its location is very accessible and very close to the thriving hub of Laverton, Derrimut, and surrounds. Situated just 2 minutes off the Western Ring Road with direct freeway access to the North, East, West and South of the State, our Australian head office is now extremely well positioned to meet the needs of our customers as we continue to enjoy the growth and expansion of our business.

investment into research and development



Groeneveld Group's experience centre in The Netherlands

Being a brand new building, the new property not only offers more than double the warehouse space of their previous building in Sunbury, it also gave us the opportunity to design and build our own office layout.

In February 2010 after months of planning and construction Groeneveld was ready to move into the new building which has seen strong support from our customers and dealers within the area.

Not only do we have this new state of the art Head Office premises in Sunshine we also have branches in Arndell Park, Rocklea, Rockhampton, Townsville, Devonport, Belmont and Wingfield.

GROENEVELD CUSTOMER PRODUCT REVIEW

Delta Rent is a division of Delta Group, a familiar brand on large demolition and construction sites throughout Australia. The Division specialises in dry hire of the latest technology excavators, wheel-loaders, crawler dozers, compactors, motor graders and dump trucks.

Five years ago, Delta recognized the importance of maintaining equipment investment value and optimum operational standards. This led to a study of the available options for automatic maintenance.

Delta Rent's General Manager said, "With a rental fleet, the easier we make it for our clients to maintain the equipment, the better. Clients appreciate the fact they don't have to waste productive time in greasing the equipment. With equipment being used in heavy conditions for long hours, it's critical that greasing is performed regularly.

We're averaging around 2,000 hours per year with most of the equipment. We started installing the systems in 2006. Some of the new equipment we had purchased had come fitted with the Groeneveld system. We liked how it performed and decided to standardize on that product for our fleet".

We are pleased with how the system is performing on our Caterpillar, Komatsu, Hitachi and Volvo equipment. We now specify Groeneveld factory fitted systems on most of the equipment we purchase.

Unlike manual greasing where the grease doesn't stay in place where it needs to protect against friction, the system's metered grease application is constant. Because parts are moving during the greasing process, the entire surface of critical components remains lubricated.

Compared with manual greasing at scheduled intervals, automatic greasing has been proven to provide the best possible grease distribution across the bearing surfaces, with constant sealing while substantially lowering grease consumption.

We'd love to assist you with your efficiency and safety requirements.

So as you can see Groenveld's continuous investment into research and development of quality control over the previous 40 years, not only applies to our products but also to our professionalism and offices.

So call in the next time you are in one of these areas and talk to the team at Groeneveld and see how our Automatic Greasing and Active Safety systems can improve your efficiency. ▪



For further information call
Groenveld Australia on
Freecall: 1800 640 560.

A photograph of a construction worker wearing a hard hat and safety harness, looking up at a piece of machinery. A red starburst graphic in the bottom right corner contains the text "10% discount for CMPA members". Below the worker, large white text reads "Isn't it time you thought about automatic lubrication?". At the bottom left is the Groeneveld logo, and at the bottom right is the text "NATIONWIDE NETWORK" above a large phone number "Toll Free: 1800 640 560".

Bendigo TAFE delivers customised training

STACEY CLARK, Course Coordinator Mining, Bendigo TAFE provides an insight into regional education.

BENDIGO TAFE delivers vocational training, education and assessment services to over 12,000 students every year. Campuses are located at Bendigo, Castlemaine, Echuca and Kyneton.

The Mining Department has been delivering training for the local mining industry since 1994 specialising in surface extraction, underground mining, exploration, mineral processing and laboratory techniques.

Training can be delivered onsite or at one of our campuses. Whether your needs are for an individual unit of competence, a skills set of clustered units or a complete qualification, Bendigo TAFE can assist to meet your needs. The training can be customised for your site and we can individualise the training plan for each person to reflect their roles and responsibilities within the workplace.

Qualifications delivered for Extractive Industries Operations are:

- Certificate II in Surface Extraction Operations (basic operator level)
- Certificate III in Surface Extraction Operations (advanced operator level)
- Certificate IV in Surface Extraction Operations (supervisor level)

Bendigo TAFE also has a wide range of industry based short courses which include:

- Safe use and handling of explosives (Work safe approved - License to use blasting explosives)
- Work safely at heights
- Confined space entry
- MARCSTA general safety induction
- Introduction to geology

- Apply first aid (Level 2 workplace first aid)
- Construction Induction Card
- Collect and prepare samples
- Conduct laboratory based acceptance tests for construction materials

Traineeships are available for new entrants to the extractive industry and there are government incentives available which can cover the cost of training. Training can be conducted on site with assessors having regular site visits to keep the training program on track.

WHY TRAIN EMPLOYEES?

The following three points are important reasons to ensure that you train your employees. Each lists some benefits that employers are likely to gain from training their employees:

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Productivity improvements

- Newly developed skills in the workplace improve productivity. Employees undertaking training generate new ideas and a fresh approach.
- Training is tailored so that it is relevant to the tasks being performed on the job.
- Flexible delivery methods allow shift requirements and other organisational obligations to be met.
- Employees develop efficient and effective work practices in their training.

Compliance with regulatory and quality standards

- Trained employees assist in meeting best practice standards.
- Tailored training plans to target critical skills required.
- Nationally recognised training assists in meeting regulatory compliance, and avoids health, safety and environmental incidents.
- Structured training provides consistent guidance for safe work practices.
- Structured training fosters a positive working culture

Effective workforce planning

- Qualifications can be aligned with existing job descriptions.
- Opportunity for employees with existing qualifications or skills to upgrade.
- Qualifications from other training organisations are recognised.
- Nationally recognised training provides a robust system to ensure consistency across the organisation and the industry.
- Training your employees assists in improving staff morale and retention



Onsite training with Stacey Clark

Recognition for Prior Learning (RPL) can be utilised to recognise the skills of experienced operators. Bendigo TAFE has developed comprehensive documents for assisting with the preparation and collection of evidence to make the process easy to understand. ▀

TESTIMONIAL

"Iluka Resources Ltd values our continuing relationship with Bendigo TAFE as it has proven to be professional, responsive and supportive of our needs"

John McKay – Iluka Resources



60 SECONDS WITH AN ASSOCIATE MEMBER...

What is your name?

Stacey Clark

Who do you work for?

Bendigo TAFE

How many years have you worked for this business?

14 years

How many years have you been involved in the Industry?

18 years

What is your role at the company?

Coordinating mining, extractive, and related programs and courses

What does your job involve?

Conducting training/assessments, liaising with industry and developing programs to suit industries needs.

What is the best part of your job?

When both employers & employees are satisfied with the training.



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Why employees should attend?

- Provides basic knowledge of collect samples on site
- Ability to confirm what, how and when samples are to be collected
- Closely follow sampling procedures to obtain required samples and maintain their integrity
- Deliver samples to the required collection point and complete all documentation to ensure traceability
- Minimise environmental impacts of sampling

Dates: September 2011

Location: Bendigo Regional Institute of TAFE, McCrae St, Bendigo

Cost: TBA

To book, please contact Stacey Clark at Bendigo Regional Institute of TAFE by phoning (03) 5434 1653.

CMPA AGM & DINNER 2011

The CMPA 2011 Annual Dinner at the newly refurbished Moama Bowling Club is now only weeks away. With the Secretariat now applying the finishing touches to what will be an enjoyable weekend for all members and their guests.

It will be a great night to catch up with old friends, network with fellow members and meet new people with the same interests. You will be wined, dined and entertained with beautiful music. Get your caricature drawn or win a prize at the silent auction.

If you haven't already, put this date in your diary. Details are:

Date: Saturday 27th August 2011

Location: Moama Bowling Club

Time: 5.00pm for AGM, 6.00pm for Dinner

Cost: CMPA Members \$95

RSVP: Friday 12th August 2011

Don't forget the extra activities planned for members across the weekend as well; including paintball, golf and a paddle steamer cruise on the Murray. Don't miss out on a fun filled weekend.

To book, please contact the CMPA by phoning (03) 5781 0655 or emailing enquiries@cmpavic.asn.au



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