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Mr Dean Torstonson

**National Secretary/  
Treasurer:**

Mrs Petrina Torstonson

**Contact Details:**

Institute of Quarrying  
NZ Inc

P O Box 9

Paeroa 3640

Ph. 0274 88 4977

Email:

ioq@xtra.co.nz

Website:

www.ioqnz.co.nz

# The Institute of Quarrying NZ Inc

*“Our Mission is to promote the fellowship of members and enhance the image and professionalism of quarrying in New Zealand.”*

Issue: 41

Newsletter Date: June 2015

## President's Report

Welcome to our winter newsletter for 2015. This year has seen quite a range in the weather throughout the country, from flooding to early season heavy snow falls (which is great for those who enjoy time on the piste!!).

Andrew Mahan has decided to resign from the executive and his place has been filled by Gavin Parker, who has been co-opted onto the executive until the 2015 AGM. Our thanks to Andrew for his time and efforts on the executive over the past few years and to Gavin for coming on board.

There have been a few local branch meetings held since our last newsletter. This included a meeting held in Havelock North for those in and around the Hawkes Bay area, organised by Matt Webster. This was well attended with Tony Forster (WorkSafe) and Michelle Crompton (MITO) the main speakers.

There have also been a few other local branch meetings held in Northland, Auckland, Waikato/Bay of Plenty and Otago/Southland.

I would like to acknowledge all of the sponsors of these local events, without whom, it would not have been possible for these activities to take place. Also, if you are thinking of any purchase for your site, please remember those companies who are “Friends of the IOQ” and their generous support for the IOQ. We are pleased to announce that we have been approached by Oil Imports Ltd, who are the authorised distributor of Total Lubricants to become a Friend of the IOQ. We will let you know as soon as they are on-board.

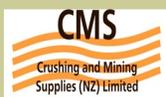
A series of Extractive Industry Health and Safety Information Forums are scheduled to take place around the country, for the more rural areas, between now and the end of the year and these will be run by WorkSafe and MinEx. The first one was held in Greymouth and the others are to be held in Southland, Ashburton, Central Otago, Whangarei and Tauranga. Keep your eyes open for the date and venue in your region. We will keep you posted on the IOQ NZ (Inc.) website.



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corner, so I hope that you are able to attend and have registered accordingly. The Annual IOQ NZ (Inc.) Awards are to be presented during the conference, so I would remind you all to get your nominations in for these prestigious awards as soon as possible, as time is running out. If you are unsure, then please check out the website for details.

Since our last newsletter, it is with great sadness that I have to report that there have been another two fatalities in the quarry industry. These are currently under investigation and further details will be released when available.

I would like to take this opportunity to remind all CoC holders that we are almost half way through 2015 and that I hope that you have all started to make headway with the additional unit standards that you will be required to complete to be able to renew your CoC from 2016. The latest training options available have been circulated through the IOQ NZ (Inc.) website, so you can check out the options if you need a reminder.

I look forward to seeing you at this year's conference in Hamilton.

Gordon Laing  
President 2013 – 2015  
IOQ NZ (Inc.)

## Extractives Industry Forum

WorkSafe and Minex have arranged open discussion and information forums to be held in regional locations through the year:

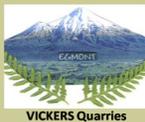
The first was held in Greymouth on 17 June 2015.

Other centres to follow with dates to be confirmed:

<b>July 2015</b>	Tauranga
<b>August 2015</b>	Alexandra
<b>September 2015</b>	Whangarei
<b>October 2015</b>	Ashburton
<b>November 2015</b>	Invercargill



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## Northland Branch Report

Well it is Duck shooting season now with the wet weather here, so time to put pen to paper.

We held a first aid course which was well attended—22 people now have certificates.

The last trade night was held at TransDiesel's Whangarei branch where we had good speakers on the Volvo and Yanmar range of gear. We also had Stuart Sutherland speak about their Finlay products. After a good steak and salad to eat, washed down with a cold one/two, TransDiesel's resident comedian (Kevin) started telling jokes with a backup act from Johnny Dickson. It was a great night and many thanks to Pat Cox and his team.

Our Committee members are very busy organising our local Quarry awards night on 15 August 2015. With a great response from our sponsors/ suppliers – we have three main awards on offer TransDiesel / Northland Quarry operator of the year, Quarry Mining Services / Northland Quarry Employee of the year and Advanced Engineering Group / Good Bugger award.

On the night the (Great) Jason Hinton will be the MC and we will have guest speaker Tony Davis-Colley who built up one of New Zealand's biggest timber processing plant in Whangarei.

Well I had better get back to work to earn enough money to attend Hamilton Conference.

Murray Smith  
Northland  
Branch Chairman



## Canterbury Branch Report

On the 1<sup>st</sup> of April we had a meeting, followed by an information night, hosted by AEG in Woolston. Again, we had fantastic attendance, with 40 attendees, and were lucky to have some excellent guest speakers by means of Les Ward, Johan Reid-Robertson, and Donna and Matther from APS. We discussed the importance of regular branch meetings, ideas for the future, and the team from AEG spoke about the different screen meshes now available. Raffle prizes were sponsored by TransDiesel, Real Steel, and AEG.



We have since built a sub-committee of around 6 people to assist with organising events, and we met on the 3<sup>rd</sup> of June. We discussed arranging an upcoming meeting with perhaps someone from WorkSafe, which we are in the throws of organizing now.

We have identified that there is room for improvement, and we are all committed and driven to improve the activity levels of the Canterbury Branch of the IOQ. The region has been extraordinarily busy over the past 4 years, so it is a matter of raising the profile of the organization again, through relevant and interesting events.

Look forward to catching up with everyone at the upcoming conference.



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## Auckland Branch Report



The Auckland Branch held our annual Lecture Evening on 14 April 2015.

This event was sponsored by Gough Cat and was held at their Auckland Branch in Kerr's Rd Manukau. We had three presenters on the night. Louis Cooper, from Gough Cat gave us a presentation on Equipment Management. He was followed by Bill Bourke from the AQA who presented on complacency gradually creeping in with established personnel. A very interesting topic. Our third presenter on the night was Jon McAllister who talked about his journey in the industry and how his company, Crushing and Mining Supplies came about and some of the new and innovative products that are now available on the market. It was a very interesting evening. We had about 40 people attend and Goughs did a great job hosting us.

The Auckland Branch will be holding our AGM at the end of June which we will combine with Health and Safety evening and that will have given us six events in the last year.

I look forward to catching up with you all at the conference in July.

John Quayle  
Auckland Branch Chairman

## Wellington Branch Report



Brian Bouzaid as acting Chairman is still keen to re-establish the branch especially as Wellington region gears up for an exciting few years.

Any members, suppliers keen to attend a branch meeting please contact Brian on [brian.bouzaid@holcim.nz](mailto:brian.bouzaid@holcim.nz) or [ioq@xtra.co.nz](mailto:ioq@xtra.co.nz).

## Waikato/BOP Branch Report

On the 16<sup>th</sup> of May we had our 3<sup>rd</sup> Waikato/Bay of Plenty Fishing competition which is kindly sponsored by Transmission House and held in Coromandel on two fishing charters. This year's trip was as good as last year's - a great success with good numbers attending and good numbers of fish being caught.

As there are so many sponsors supporting our branch, rather than acknowledging them all individually and running the risk of leaving somebody out, please accept this as a personal thanks from the Waikato/Bay IOQ branch.

Allan Mc Donald  
Branch Chairman  
Waikato/BOP Branch



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## Otago/Southland Branch Report

Article by Phil Boulton

On Thursday 7<sup>th</sup> of May, the Otago Southland branch members gathered at Southern Aggregates Green Hills quarry near Bluff to check out the latest mobile crushing plant and mobile screening plant in operation. Southern Aggregates new Terex Finlay plant was commissioned by TransDiesel Ltd to provide primary crushing at the Quarry face using a J1170 Jaw with product being further processed and screened by a second Terex Finlay C-1540RS track type cone crusher with multi deck screen working in combination. This new equipment replaces an old static plant on site.



Green Hills is located at the most southern point of the South island. From the Quarry you can look out to Stewart Island across Foveaux Strait and on the nearby hills a new electricity producing wind farm is being constructed to harness the abundance free energy blown in from the southern ocean. This did not discourage more than 30 members and interested visitors to check out the Quarry and its new equipment. Everyone was treated to a hot coffee on arrival as they signed in before they went down to the quarry floor where Craig Ormrod from TransDiesel gave a presentation on the features of the new Terex Finlay Equipment. Craig explained the new technology used in the drive system and how it is controlled before the Group watched the equipment being used in a live demonstration. After the demonstration, the plant was shut down and everyone had the opportunity to get up close and inspect the machines this included a new Volvo L120H wheel loader that some took for a test drive.

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## Otago/Southland Branch Report cont.....



After leaving the Quarry we meet at the Zoo Keepers Inn for a quick get together and a meal. As it has been some time since the IOQ has held an event in Invercargill, it was decided to hold the branch AGM that evening and almost every one that was at the quarry turned up for the meeting at the Ascot Park hotel. The Meeting was jointly sponsored by TransDiesel and Russet Engineering.

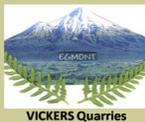


Brian Docherty gave a presentation on the Finlay product history and the significance of the colour orange to the product. Wayne Duffy from Russet Engineering presented the range of Kinder conveyor and skirting products including self tracking rollers.

The great turn out of members and prospective new members coming along made the event very worthwhile for everyone involved showing the support the IOQ has in the Southland region.

Thank you to Gordon Skeggs and the Southern Aggregates team at Green Hills Quarry, TransDiesel for the display and having knowledgeable staff on site, Russet Engineering for new product information and also having knowledgeable staff to answer questions on products of interest.

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## NZ Mining Board of Examiners Update

In the last couple of weeks, since the latest quarry fatality (which WorkSafe is investigating) there has been a huge increase in questions about COCs to the New Zealand Mining Board of Examiners' secretariat. Nikki and Gina in the secretariat are very happy to help people with their questions. The secretariat is here to help and it is the place to go to make sure you get the correct information. Nikki and Gina have found that people are often given the wrong information and they work with each individual to make sure that they know what they need to do.

You can email:

[boe\\_secretariat@worksafe.govt.nz](mailto:boe_secretariat@worksafe.govt.nz) or call Nikki on 04 901 4980.

WorkSafe has a stand at the IOQ/AQA conference, between the IOQ and AQA stands. Gina, Nikki and WorkSafe inspectors will be there to talk to you and answer any questions. There will also be information material.

Under the Health and Safety in Employment (Mining Operations and Quarrying Operations) Regulations 2013, WorkSafe must be notified from 1 January 2015, of managers of quarrying, alluvial and metalliferous underground coal and opencast coal mining operations, as well as tunnelling operations. More information about this and the forms are on the Extractives' part of WorkSafe's website.

If you have any questions, please email [hhu.extractives@worksafe.govt.nz](mailto:hhu.extractives@worksafe.govt.nz). WorkSafe is here to assist and work with you.

## 2015 Quarry NZ Conference Hamilton



**Registrations are  
open**

Details can be found on :  
**Quarry NZ Website**

[www.quarrynz.com](http://www.quarrynz.com)



### JOB OPPORTUNITY

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With a sales territory from Ashburton to Nelson, and including the West Coast, this role will primarily be servicing our wear parts and transport customers. Experience in industrial sales, mining, quarrying, engineering or road transport is beneficial.

This role will be focused on looking for new opportunities as well as keeping current customers satisfied and continuously providing them with value-add solutions.

Ideally you will be based in Christchurch, however applications from all areas within the sales territory will be considered.

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## Advertisement—T R Industries

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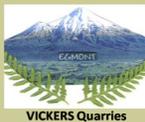
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## MinEx Update

### Recent fatalities

In the last 3 months there have been 3 fatalities in the quarry sector and these have been well publicised in the media and in previous MinEx's publications. While it will be some time before all of the facts come out and we know exactly what caused the accidents, we can draw some lessons from these events. These include:

- Guarding;
- Vehicle interactions and vehicle maintenance (brakes, steering, seatbelts); and,
- Ground control.

The Waikari quarry photographs that have appeared in the media show a highwall with no benching and with a joint surface dipping into the pit and evidence of previous rock falls along much of the highwall.

All mining and quarry operations, particularly those with face heights over 10m, should examine their highwalls for evidence of instability and take appropriate action to ensure the safety of their workers.

Operations covered by the 2013 mining regulations should by now have completed a geotechnical assessment of their operations and put in place any controls required to ensure a safe operation.

While quarry and alluvial gold operations are not covered by these regulations this does not remove the obligation on them to also carry out a geotechnical assessment of their highwalls, particularly if they have previously shown any signs of instability. This assessment might be simply a thorough examination by the CoC holder in charge or might require an assessment by a geotechnical expert.

While it is the fatalities that get all the media attention our MinEx statistics show that in the period from July 2014 there have been 16 lost time injuries in the Quarry sector, and none in the surface mining sector. No comparative data is received from the alluvial sector and that is an issue we are seeking to address.



### Extractive industries H&S Forums

The first of these Forums was held in Greymouth 17 June with approximately 100 people attending from all sectors of the industry.

The Forum is a joint WorkSafe/MinEx initiative with the objective of drawing in those operations that are not engaged with any of the industry organisations and in this way assisting them to improve their health and safety performance.

Further forums are planned: *(dates and venues subject to change, please see our website [www.minex.org.nz](http://www.minex.org.nz) for updated details)*

- Tauranga – July 2015;
- Alexandra – August 2015;
- Whangarei – September 2015;
- Ashburton – October 2015; and,
- Invercargill – November 2015.

### Silica WES submissions

WorkSafe has released a workplace exposure standard for crystalline silica (quartz) which proposes a limit of 0.025 mg/m<sup>3</sup>. This is presumably a time weighted average for exposure during an 8 hour workday for a total of 40 hours per week.

The current NZ guidance value is 0.2 mg/m<sup>3</sup>. The Australian National Exposure Standard is 0.1 mg/m<sup>3</sup>.

An alluvial gravel operator has supplied recent dust sample data that shows only 1 of 6 samples collected would have achieved the proposed standard so this is an important issue for opencast mines and quarries as well as for underground mines.

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## MinEx Update cont....

MinEx will be making a submission according to the programme below:

- MinEx issues document released 26 June;
- Members responses due 3 July;
- Draft submission released 24 July;
- Members responses 31 July; and,
- Submission due 7 August.

MinEx has spoken to Civil Contractors NZ and the Cement & Concrete Association of New Zealand (CCANZ) who are interested in a joint submission.

Given the technical nature of the submission, MinEx will need to commission an expert supporting report.

### CoC training

Much progress has been made here with MinEx releasing a number of training schedules for new competency training and these can be found on our website [www.minex.org.nz](http://www.minex.org.nz), along with a calendar for the year with dates and venues.

Next week we will be completing a capacity assessment on the training being offered. This is expected to show the need for more Human Factors (26855) courses along with generally more training courses being offered in the North Island and particularly in risk management (26856).



## MITO Update



### CoC's now administered by WorkSafe NZ

At the end of May, as part of a process alignment review, the administration of Certificates of Competence (CoC) applications was transferred from MITO to the NZ Mining Board of Examiners. Accordingly, all enquiries about CoC's and applications for CoC's are now managed by the NZ Mining Board of Examiners. The contact is Nikki Kitchen, email [boe\\_secretariat@worksafe.govt.nz](mailto:boe_secretariat@worksafe.govt.nz) or phone 04 901 4980.

MITO continues to provide training options for the new safety-critical unit standards for current CoC holders who need to have these completed by 31 December 2015. More information, including common questions and answers, is available on MITO's website – [www.mito.org.nz](http://www.mito.org.nz).

### Monitoring visits

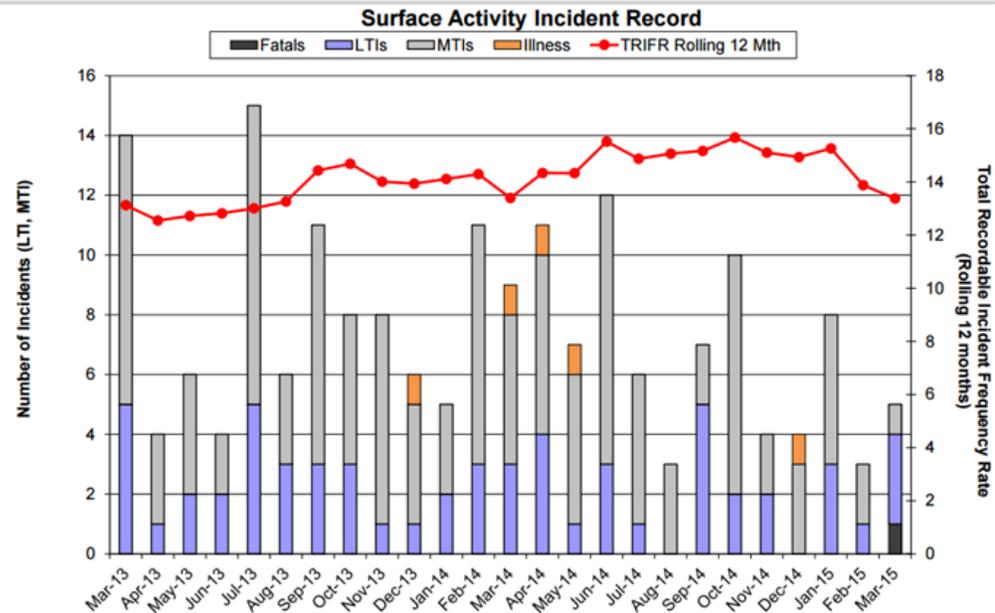
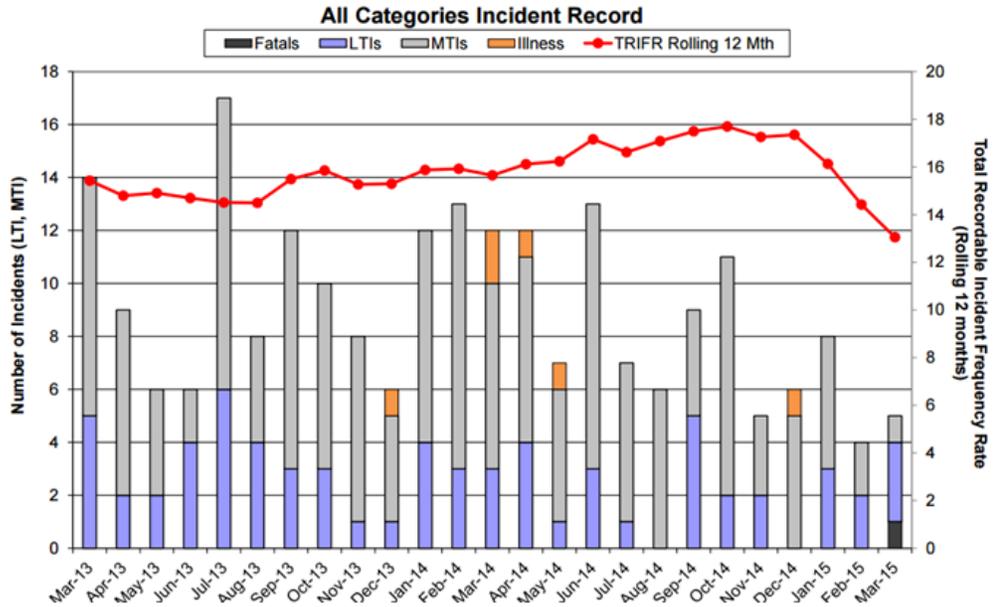
Over May and June, MITO along with NZQA, have conducted joint monitoring visits to providers who are delivering training and assessment of mining and quarrying unit standards.

The purpose of the visits has been to gain assurance that the provider is in compliance with the rules relating to its consent to assess against standards in the extractives sub-field, including the Consent and Moderation Requirements (CMR) for these standards. The visits covered any training and assessment being conducted under the CMR; however, particular focus was on delivery of the Certificates of Competence new safety-critical unit standards.

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# INCIDENT REPORTS FROM MINEX



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## Recent Correspondence Distributed to members on behalf of



### CoCs for Quarries—FAQ —25 March 2015

WorkSafe NZ has released a useful document clarifying the three most frequently asked questions (FAQs) on expiry dates of Certificates of Competency for quarry managers:

CASE 1: A quarry where the manager has no CoC and has never held a CoC.

CASE 2: A quarry where the managers CoC expires mid-way through 2015.

CASE 3: A quarry where the managers CoC has no expiry date or expires after 1 January 2016.

See IOQ Website post:

<http://ioqnz.co.nz/2015/03/cocs-for-quarries-faqs/>

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### Change to Processing of CoC Applications —20 May 2015

From 26 May 2015, WorkSafe will be administering the entire process for Certificate of Competence (CoC) applications.

See IOQ Website post:

<http://ioqnz.co.nz/2015/05/processing-of-coc-applications/>

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### Board of Examiners Membership Criteria widened —2 June 2015

The NZ Mining Board of Examiners has changed its qualifications criteria to include: those who hold a relevant certificate of competence (CoC) and/or a relevant qualification.

See IOQ Website post:

<http://ioqnz.co.nz/2015/06/nz-mining-boe-panels-of-examiners/>

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### Updating my Certificate of Competence—15 June 2015

WorkSafe has developed a new document which outlines very clearly what is required for applicants to update their existing Certificate of Competence. The document shows requirements for quarrying, tunneling and mining. For more information—please click on the below link:

See IOQ Website post:

<http://ioqnz.co.nz/2015/06/updating-my-coc/>

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## Certificate of Competence Questions

### Who should we contact?



Below is a guideline of who to contact:

**Do I need a COC?**

Contact NZ Mining Board of Examiners Secretariat

**What unit standards do I need to do to keep my COC?**

Contact NZ Mining Board of Examiners Secretariat

**I want to apply for a COC or a COC renewal (I have the unit standards I need)**

Contact NZ Mining Board of Examiners Secretariat

**I need training for some unit standards required for the COC**

Contact MITO Industry Training Advisor.

**I hold Australian Units of Competency; can these be used in place of the NZ ones?**

Contact MITO National Assessor

**I hold an Australian COC; do I need a NZ one?**

Contact NZ Mining Board of Examiners Secretariat

**I have questions about continuing professional development (CPD) requirements**

Contact NZ Mining Board of Examiners Secretariat

**I have questions about Logbook requirements**

Contact NZ Mining Board of Examiners Secretariat

**I have questions about the examinations for COCs**

Contact NZ Mining Board of Examiners Secretariat

**Contact details for NZ Mining Board of Examiners Secretariat – Nikki Kitchen**

Phone: 04 901 4980

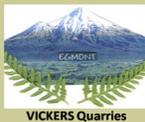
Email: [BoE\\_Secretariat@worksafe.govt.nz](mailto:BoE_Secretariat@worksafe.govt.nz)

**Contact details for MITO**

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Email: [info@mito.org.nz](mailto:info@mito.org.nz)

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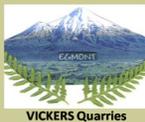


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## MIMICO Article

### MIMICO to host Operation and Maintenance Training Schools

This August sees the return of MIMICO's famous two day operation and maintenance training school. Barmac VSI and cone crusher operators from across the country are invited to register for one of the two available schools, which are being held in Christchurch and Matamata. Spaces are limited so sign up now.

"These sessions will arm crusher operators with a wealth of information that will help them use their equipment more efficiently and effectively," explains Garth Taylor, MIMICO's Crushing & Screening Business Manager. "Join us to learn a host of practical new skills that can be applied as soon as you step back on site."

#### Cone Crushers – what's being covered?

**GP and HP Cone Crusher Introduction:** An introduction and look at the differences between models, development of machine models and basic application guide.

**Safety:** A quick look at the important safety points unique to a Cone Crusher.

**Principles of Operation:** How they work. Take a close look at the hydraulic/lubrication systems and the benefits of running an IC Control unit.

**Crusher Operation:** What adjustments can be made during operation?

**General Maintenance:** A detailed look at what areas of these two crushers need maintaining to prevent unnecessary costs.

**Crusher Inspection and Servicing:** Covering all crusher parts, including information on wear and replacement parts.

#### Barmac VSI – what's being covered?

**Barmac Introduction:** An introduction and look at the history, development of machine models and basic application guide.

**Safety:** A quick look at the important safety points unique to a Barmac VSI crusher.

**Principles of Operation:** How it works. Take a close look at the action of the machine and rotor.

**Crusher Operation:** What adjustments can be made during the operation of a Barmac VSI?

**Lubrication:** Lubrication requirements for a Barmac VSI.

**Rotor Maintenance:** A detailed look at the rotor and all its wear parts. Studies wear patterns, removal and fitting, rotor wear, rotor repairs and rotor balancing.

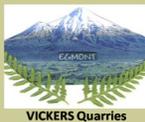
**Crusher Inspection and Servicing:** Covering all crusher parts, information on wear and replacement, shaft line assembly and disassembly.



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## Recent Visit by WorkSafe

By Matt Webster

As a quarry manager it is with interest I watch the development of health and safety legislation and training initiatives coming through this year.

My initial reaction to these H + S changes was to undertake a site audit focusing largely on Guarding, Electrical Hazards, and potential Geotechnical hazards, all listed as areas of interest for the inspectors. This Audit outlined areas for development which we addressed in our H+S development plan, we knew we couldn't fix everything over night but we could start a PHMP that would address our issues over time.

Since the formation of the new WorkSafe Mines Inspectorate, there has been huge amounts of speculation around their approach and the perceived carnage that is unfolding in the NZ extractive industry. This is why when my radio crackled with the news there were two mines inspectors in my office demanding to see the Quarry Manager—it was with apprehension I came down from the quarry to face the firing squad.

What I experienced over the following hours of discussion and inspection was a complete 180 on my perceptions going in. The inspectors were inquisitive, knowledgeable, and quick with pointers on how to navigate the new legislation with practical solutions.

They were genuinely interested in what we were doing as a company and the procedures we had put in place to help manage our sites principle hazards.

During our inspection the areas we were still working on were noted, but because we were able to outline a documented management plan these issues were seen to be under control.

My knee jerk reaction to the new inspectorate was apprehension as I thought they were coming to tell us how to run our quarry and lay waste to anyone who stands in their way. My experience with WorkSafe now gives me the impression they are here to be proactive within our industry, to assist us in keeping our guys safe.

If my experience is typical of WorkSafe's approach then I can only see there being positive change within the extractive industry.

## Applying for Membership



Visit:

<http://ioqnz.co.nz/about-us/membership/>

- Complete all details
- Your Application Form must have an IOQ corporate member proposer and seconder
- Sign the Application Form.
- Attach associated supporting documentation.
- Scan the Application Form and documents & email to [ioq@xtra.co.nz](mailto:ioq@xtra.co.nz)
- Post the originals to P O Box 9 Paeroa

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## Advertisement—AEG



### Machinery / Guard Mesh

Advanced Engineering Group Supply Guarding Mesh to all industries to meet Occupational Health & Safety guidelines.

The Following Formula provides an easy method for determining the required gap or mesh openings (aperture) and the distance the guard should be from the hazard.

No admittance	No admittance, reach restricted to root of finger	No admittance, reach restricted to root of thumb	No admittance, reach restricted to hand thickness

**The aperture and the distance the guard is from the hazard shall ensure that Physical contact with the hazard is not possible.**

#### Aperture, wire size and distance from hazard (guideline only)

Guard Type	Aperture	Wire diameter	Distance from hazard
Fixed Enclosure Guard	10mm to 20mm	2.5mm	25mm to 150mm
Fixed Distance Guard	20mm to 50mm	3.0mm	200mm
Fence Guard	50mm x 150mm	4.0mm	1000mm

A **Fixed Enclosure Guard** is where the machine or moving parts are totally enclosed by the guard and is generally in the form of a steel plate and a mesh inspection point as close as practical to the machine and its moving parts.

A **Fixed Distance Guard** is where the guard is fixed at a point to prevent any body parts accessing any moving parts. It is generally in the form of a mesh with an aperture size appropriate to the distance from the machine and its moving parts to prevent body part access, i.e. entanglement.

A **Fence Guard** is a stationary fixed guard generally in the form of mesh which completely surrounds a machine or group of machines restricting access.



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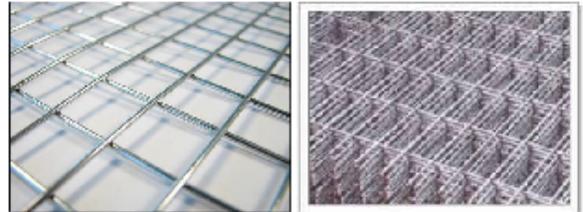
## Advertisement—AEG

### Machinery / Guard Mesh

All mesh supplied in 2400mm x 1200mm sheets

#### Stainless Steel Welded Mesh (304 & 316)

Reference Code	Aperture (mm) Square & Slot	Wire (mm)
Welded S/S	25.0 x 25.0	3.00
Welded S/S	40.0 x 40.0	3.00
Welded S/S	50.0 x 50.0	3.00
Welded S/S	50.0 x 50.0	4.00
Welded S/S	50.0 x 50.0	5.00
Welded S/S	50.0 x 75.0	5.00
Welded S/S	50.0 x 150	5.00
Welded S/S	100.0 x 100	5.00



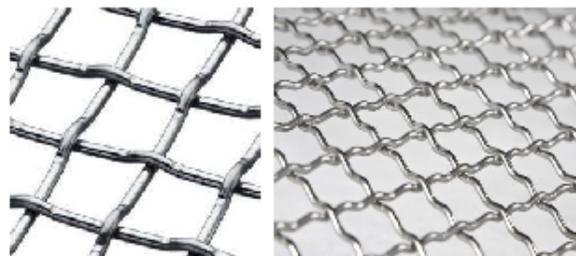
#### Galvanised Welded Mesh:

Reference Code	Aperture (mm) Square Mesh	Wire (mm)
Welded Galv	25.0 x 25.0	2.25
Welded Galv	50.0 x 50.0	3.15
Welded Galv	100.0 x 100	4.00



#### Galvanised Woven Wire Mesh:

Reference Code	Aperture (mm) Square Mesh	Wire (mm)
Woven Galv	12.0 x 12.0	2.00
Woven Galv	14.0 x 14.0	2.00
Woven Galv	16.0 x 16.0	3.15
Woven Galv	19.0 x 19.0	5.00
Woven Galv	20.0 x 20.0	4.00
Woven Galv	22.0 x 22.0	5.00
Woven Galv	25.0 x 25.0	3.15
Woven Galv	40.0 x 40.0	4.00
Woven Galv	50.0 x 50.0	5.00



The overall mesh range we can supply for machine guarding is very extensive,  
Please request other options available.

Christchurch  
P 0800 880 235  
F 0800 880 234

sales@advanced-eng.co.nz

Brisbane  
P 61 7 3713 7744  
F 61 7 3713 7788

sales@advanced-eng.com.au

Melbourne  
P 61 3 8363 1577  
F 61 3 9363 6099

sales@advanced-eng.com.au

For more information on our products and services visit our website at [www.advanced-engineering-group.com](http://www.advanced-engineering-group.com)



Our website provides information on the following;

- IOQ Executive Committee,
- Branch Chairmen and Secretaries,
- Upcoming branch meetings
- Conference updates
- Awards nomination forms
- Membership forms,

Most forms are in pdf format and can be scanned and emailed to save you time.

[www.ioqnz.co.nz](http://www.ioqnz.co.nz)

## Outstanding IOQ Membership Fees - 2015



We have a small number of 2015 IOQ Membership Invoices which remain overdue for payment.

Please ensure payment is made promptly. This will enable you to be issued with your IOQ Membership Discount Card for 2015.

Should you require a copy of your invoice—please email your request through to our Secretary/Treasurer at [ioq@xtra.co.nz](mailto:ioq@xtra.co.nz)

## Welcome to New Members

Name	Category of Membership	Branch
Gary David Payne	Associate	Canterbury
Phillip Andrew McKenzie	Associate	Northland
Neil Cates	Associate	Northland
Duncan John McIntosh	Member	Waikato/BOP

### REMINDER

**If you are proposing or seconding a membership application—please ensure you are a corporate member of the Institute.**

**This means you must be a Member, Fellow or Honorary Fellow.**

**An Associate member cannot sign off on membership applications.**

All members please ensure your details are updated when you change your address or employer.