



The Institute of Quarrying New Zealand Inc

IOQ QUARTERLY NEWSLETTER

Issue No. 26

March 2011

Executive Committee 2010/11:

President:

Mr Warwick Leach

Vice President:

Mr Gavin Hartley

Immediate Past President:

Mr George Kelcher

Mr Murray Discombe

Mr Chris Gray

Mr Gordon Laing

Mr Andrew Mahon

Mr Peter Morgan

Mr Les Ward

National Secretary/Treasurer:

Mrs Christine Dodds

Invited Board Member:

Mr Kevin Walker,
CEO Exito

President's Notes:

Welcome Members

Hi everybody and welcome to the New Year.

I hope you all had a safe and happy New Years. I can't believe its April already! It still seems to be summer in the North Island with

our farming community a lot happier this year with the odd drop of rain, relieving the bad drought that they have had to endure for the last three years. The Dairy companies are looking at some good pay outs for the milk fat this season which must have a 'trickle down' affect on quarries with maintenance metal and lime rock going out the quarry gate for farm tracks and cow races before the wet seasons arrives.

At this stage, I would just like to make comment on the Christchurch earthquake and pass on our deepest condolences to our Christchurch people, we always think this sort of thing just doesn't happen in NZ. To be hit with two major earthquakes within months is unbelievable and watching the scale of the damage unfold, it was like a war zone and it made every New Zealander wonder how can we help. I was talking to George Kelcher the other day and he was saying that Christchurch has 5 million tonnes of waste that needs to be removed from the city and one problems they are facing is where can they put that amount of waste?



The availability of roading work around our area hasn't improved with work being tough and margins even tighter but I know the Waikato quarries around Hamilton By-pass and Expressway are quite busy. The down turn or recession, call it what you will, is still with us and I can see the autumn and winter periods not improving, so we are predicting another very tight year ahead. Government and Council's still need to open up their wallets and get more infrastructure jobs moving around the country! I've said this before in other newsletters, but it's a cold hard fact it's what we need to survive this down turn. They need to spend.

The Waikato/Bay Conference Committee have had two meetings this year so far and they tell me everything is on track for the upcoming Conference in Rotorua. Dean Torstonsen, who is the chairman, and his conference team have been working hard to get different events and field trips organised. Eric Souchon and his small committee have put together some very interesting papers for their programme, which I'm sure delegates will get a lot out of. Adrian and Pat Mattinson are working hard with our

sponsors with a commitment again from our Platinum, Gold, Silver & Bronze sponsors. The Trade display exhibition sites are nearly full, and I know Pat has put in a lot of hard work in making this happen. The IOQ has decided to have a trade stand again this year, which will be our home base at the conference.

February was a bad month with us losing two icons of the industry in Chris Browne from Te Kuiti and Pat Wallbank from Hamilton. Both were IOQ members. Our condolences go out to their family and friends.

MinEx and the proposed COC draft is on hold as there is a Royal Commission investigation on the Pike River Mine disaster event so it is unlikely that we will see any implementation of the COC until after the report. Also Johan Booyse has left the DOL and gone to Australia to work in the mines, so we have a new man [Richard Steel] in the hot seat.

On the action list from our most recent meeting is to keep a close eye on budget expenses for the conference and Eric Souchon and Gavin Hartley have done a lot of work here. Branches around the country need to start nominating IOQ members for

this year conference awards; follow up last year's winners for award stories on where they have travelled for an article or branch meeting talk. All Trophy awards should be returned to Gavin Hartley, thanks.

The subject of the IOQ NZ Budget for this year; Christine is getting on top of this with new accounting software which will give real time information.

On the AQA Technical Committee's front, Jason Lowe's team are working on the industry's TNZM/4 specification. They have looked at Graham Salts' research on extending pavement life, which is aimed at improving the performance of M/4 basecourse. The AQA would like to get a feel from within regarding the effects any change to the M/4 criteria would have on the industry, so they have put it out to the industry for comment. Please make the effort and

make some comment as it can make a difference with your feedback.

The Committee has also been working with Kiwi Rail on the railway ballast specification with some changes there. I also see that the AQA is co-funding a study aimed at utilising waste in concrete and I'm sure we would all be interested in this topic with Christchurch potentially being a trial area. Jason is also undertaking some postgraduate research, primarily centred on the sand equivalent and clay index test; just wondering where this has got to as it is a hot subject in our industry.

Warwick Leach
President

Institute of Quarrying New Zealand Inc

IOQ BRANCH REPORTS

Report on the **Waikato/Bay IOQ Branch Meeting held at Transmission House with CKL as guest speakers February 2011.** by Warwick Leach

Waikato/Bay Plenty had their branch meeting in February at Transmission House Ltd's premises in Hamilton. Twenty-five members were present to hear Wayne Robbins give a brief introduction and talk on his business. Transmission House Ltd started operating in Hamilton in 1986



Transmission House's premises in Vickers Street, Hamilton

specialising in industrial power transmission equipment. Their aim was to provide quality products and service to the quarry industry throughout the country. In 1990 they formed Conveyor & Transmission Ltd who import, sell and service conveyor belting and associated products to the same customer base, including in-shop and on-site belt vulcanising.

Guest speaker for the evening was Errol Balks, Director of CKL; Waikato based planning, surveying and engineering consultants, who undertake their work in the Waikato and Auckland areas. Errol gave us a rundown of what their company has to offer. He touched on the fact that out in the field, accuracy and precision are paramount. Small mistakes can have a major financial implication – overestimating stockpile sizes when working on your end of year stock holdings for tax purposes as an example. When dealing with measurements of your land, you want to ensure that the survey professional you choose does things right the first time. We were given an overview on the services they provide; Residential, Rural, Commercial and Industrial subdivisions, monitoring, maori land surveys, legalisation and hydrographic surveys and many more.

CKL have just purchased a new MDL Quarryman Pro Scanner valued at around \$70,000 which can measure bench height and contours of the face and estimate volumes available, or removed. This is a great tool for quarry design when marking out shots. The operator of the machine, Lance Gower, gave us a demonstration of how this device takes thousands of points shots of the building in the photo, which is then fed into the computer to give volume estimates.

The Institute of Quarrying NZ Inc

acknowledges with gratitude sponsorship and support from the following companies:

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Lance Gower operating the MDL Scanner whilst Eric discusses its virtues

A big thank you to the Transmission House Ltd's Wayne and Todd Robbins and their team of staff who put on a great feed and cold drinks for us after the branch meeting. It was a great evening with a very interesting guest speaker. Well done to Dean and Les.

Waikato/Bay of Plenty Branch recently had a field trip to Waihi Gold and then on to HG Leach's Tirohia Quarry, landfill, gas to energy plant and composting facility.

by Dean Torstonson [*Chairman, Waikato/Bay of Plenty Branch*]



The 'Martha' pit rim lookout – man, that's a deep hole!!

An invite was extended to the Auckland branch and a few of the boys from up that way attended the fieldtrip as well.

About fifty attended the day which started off as a bus trip to Waihi Gold to catch Jeanine Wiki, who is the educational officer for the company. A quick viewing of the open pit with some very interesting questions raised by the group and answered by Jeanine. After that it was on the bus again and over to the mill and tailings dam. By this stage

the weather gods were starting to stir and rain had begun falling again after a short reprieve in the morning. Jeanine gave a very good overview of the mining and milling process as well as a description of the commitment to the environment and the financial input into the community and local business.

Then it was back on the bus and back to Tirohia Quarry where we picked up Eric Souchon, who was our tour guide for the H G Leach site. First stop was the top of Tirohia Quarry to view the development of the Landfill in the expired area of the Quarry pit with a very in-depth and informative talk on the life cycle of Tirohia Quarry and then it was down to the compost facility and another very robust discussion around the economics of composting.

The day would not be complete without a couple of beverages and a great meal courtesy of Gough's, Blackwood Paykels & Paeroa Farm services. The BBQ and pork on a spit was absolutely sensational and as the weather persisted down, it made the meal all that more enjoyable. A big thank you to the sponsors on the day; Jeanine Wiki [Newmont Waihi] and Eric Souchon (H G Leach), for taking the time to show us around. Everybody had a most enjoyable day.

Canterbury Branch reports from recent branch activities

by Marc McSkimming [Secretary/Treasurer, Canterbury Branch]

31 July 2010 - 36 members enjoyed a fantastic weekend road trip to the west coast. An early start for many on the Saturday morning saw us arrive at Reefton mine at approximately 8.30am for a tour of the mine and processing plant. After an early lunch we headed off to Ngahere and were hosted by Alan Birchfield on his Dredge. Later that



day we headed south again and were hosted in Ross by Evan & Andrew Birchfield at the Ross Hotel. This was an interesting evening and resulted in a late start for some on the Sunday morning! Sunday morning we were shown around Birchfield Ross Mining operations and then had a fantastic display of Tank crush Car by Evan, a slow trip home and some great memories for all.

10 August 2010 - SCS Site visit

Canterbury branch members enjoyed an evening hosted by SCS, where we were able to view the TC1885C Mobile Cone Crusher. This is a Tracked Machine weighing approx 140 ton; powered by a Cat C27 Engine and it has an estimated production around 800 to 900 ton per hour. Members were glad for the opportunity to see such an impressive machine locally designed and built prior to its export to Australia.

September 2010

TransDiesel site visit and meeting

An opportunity was provided by T&D to use their facilities in Christchurch for a branch meeting and to view Bucyrus surface drill prior to delivery and also presented on their new range of gen sets and Agip oils.

This was a very good evening but unfortunately many members were unable to attend due to work commitments from the September Earthquake.

7 December 2010 - Goughs site visit and meeting

Goughs hosted an evening in December for members to view equipment being prepared for Stockton Alliance. There was a lot of large mining equipment on site and this was preceded by a brief branch meeting

March Update - Due to various earthquakes we have had a slow start to the year. Many of our members are involved in Earthquake Recovery work and supply of materials required after February 22nd. This has had a devastating impact on the infrastructure of our city.



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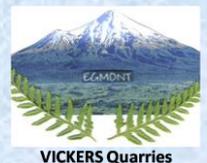
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NEW PLANT AT SOUTHERN AGGREGATES – by Peter Morgan

Southern Aggregates recently commissioned a new aggregate screening and washing plant. The plant is located at their Oreti Beach site, approximately 6km from Invercargill.



The plant supplies a full range of aggregate to the local market and a couple of grades for export to Longbeach, California.

Southern Aggregates purchased the Oreti Beach operation from Southern Transport in 2006. At that stage the site was serviced by two mobile plants – a Keith Niederer 3 deck plant and a Richard Baird 3 + 2 deck plant. The combined throughput of these two units was about 75tph.

Given the harsh environment (500m from the Southern Ocean) and the limited throughput, the decision was made to replace the two ageing mobiles with a new custom-built screening and washing plant.

The design and layout was loosely based on the aggregate plant commissioned by Fulton Hogan at their Parkburn site near Cromwell.

The new plant has a maximum designed throughput of 150tph. Due to the make-up of the feed material, this throughput equates to approximately 75 to 80tph of sand.

To achieve this tonnage, the plant utilizes a 900mm variable speed belt feeder drawing from a 50t feedbin. The feed is conveyed 28 metres to the first of two Fulton Hogan 4.0m x 1.5m three deck screens. This first deck cuts the feed into +22.0mm rejects, aggregate and 4.00mm sand. The second screen splits the aggregates into 3 grades and picks up any carry-over sand. All the sand is chuted to a Finlay 252E Hydrasander where it is classified and de-watered. The finished sand product is conveyed via a 25m radial stacker to a 2000t load-out stockpile. Two pumps supply the screens and hydrasander with 2800 to 3200lpm of water.

Plant Foreman, Ross McPherson is more than happy with the new plant. "Being able to fine-tune the plant to suit the different feed material is bloody magic" said Ross.



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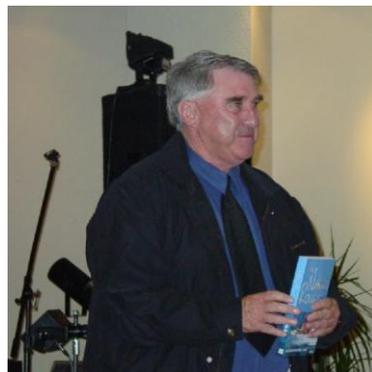
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VICKERS Quarries

Two valued members of the IOQ have passed away recently -

PAT WALLBANK – by Warwick Leach

Pat was a gentleman of the quarry industry. Pat and his wife Dorothy both attended most conferences and it was always a pleasure to catch up with them over a coffee and talk on industry matters. I always found Pat to be softly spoken however he always had a view regarding what the IOQ should be doing for it's members. He was a staunch Waikato/Bay of Plenty member and one of the guys that made the Waikato Bay strong in numbers; organising branch meetings and field trips for members in the early days. Pat you will be sorely missed and I am sure it is not going to be the same at conference; after I had spoken on the stage you would often say 'that was good Warwick' or give me the thumbs up!



Honorary Fellowship awarded

The Institute of Quarrying New Zealand Incorporated felt that Pat Wallbank was a suitable recipient of an Honorary Fellowship because of his long-term work for the Institute and our industry. The measure of the man is that when his name was suggested, the national council carried it unanimously.

Pat Wallbank was born into a quarrying family with both his father and brother involved in quarrying. Pat realised very early the value of being a member of the Institute of Quarrying (He joined in November 1966) and was probably one of the youngest members at that time. Since then he has been a staunch supporter of the Institute and has been along to most conferences since then.



Pat Wallbank (right) with IOQ UK president John Hopkins



Outgoing IOQ NZ president Russell Vickers (left) with wife Marie and incoming IOQ NZ president Brian Bouzaid with his wife Maylene.

CHRIS BROWN - by John Robertson
[Executive Chairman, InfraMax Construction Limited]

John read the following at Chris Browne's funeral on 25 January 2011 - Chris lived from 1947 to 2011. He died in the quarry, early in the morning, Thursday 20 January.

Occasionally, within a community, within an industry, within a company, someone quite special emerges. They grow into a master of their profession, a person to look up to by those who work with them, a leader in their industry.

- As they engage in their work, they do so with energy, running to achieve their ends.
- As they run to achieve their ends, they do so with passion, driven by a belief in their task.
- And as they drive to complete their task, they do so with finesse, supported by a team that admires and respects them.

Chris Browne, our colleague at Inframax, was such a person. His passion was infectious, his knowhow quite extraordinary, and his work ethic beyond question.

But Chris was more than a passionate person, hard worker, and dedicated manager. The word genius was awarded to him by a member of our company when he reflected on Chris' life the other day. Frankly, Chris was a genius. He was Dux of Piopio District High School in 1963. He was the top athlete, and has never stopped running since. He knew the geology of this area better than anyone. He was an engineer and electrician. He could design machines and build crushers. He was a mechanic and gunsmith, and someone with commercial nous. And importantly, he knew what he believed in. He did not compromise his principles. A devoted Christian, he valued his extended family, and condemned those who tried to cheat him or the company.



Thank you to **Blue Pacific Minerals** who sent a very thoughtful message of support to all Institute of Quarrying NZ members in Canterbury. They wanted to let everyone know that they took part in the national Red & Black Mufti Day, where all the staff dug deep!

Blue Pacific Minerals staff had written 'Although it only feels like a small fund raising effort towards what is needed, we fully support anything that will aid you in getting some normality back into your lives'.... this message was signed by all staff members.

The article below was in the Christchurch Press on January 25th 2011.

Halswell Quarry

Halswell Quarry's a magic place. Climb to the top on any clear day, look out over the city and so much of what Christchurch is about becomes clear. The city's early bones came from this beautiful amphitheatre of rock carved into the hillside. From the 1890s, its blue-grey stone was dragged across the landscape below to be made into the beautiful stone buildings of the early city. The quarry ran from the 1860s to 1960.

Now the area is a 60-hectare community recreation area. There are walks, a dog park, historic sites and six gardens celebrating Christchurch's sister cities.

But the high cliffs of no-longer quarried stone are the star. Taking the walk around the rim to the top lookout is a must for anyone who wants to get a geographical grip on what it means to be a Christchurchian.

EMAN SARGENT



KEY LINKS

IOQ NZ Inc	www.ioqnz.co.nz
AQA	www.aqa.org.nz
EXITO	www.exito.org.nz
NZMIA	www.minerals.co.nz
MinEx Health & Safety Council.....	www.minex.org.nz
Australian Institute of Quarrying.....	www.quarry.com.au
UK Institute of Quarrying:	www.quarrying.org
SKF	www.skf.co.nz
Locker Group.....	www.lockernz.co.nz
Rocktec	www.rocktec.co.nz
Advanced Engineering.....	www.advancedeng.co.nz
Russets Engineering	www.russet.co.nz
Vickers Quarries	vq@xtra.co.nz

The REGISTRATION FORM for this year's joint AQA / IOQ Conference in Rotorua and other information is available on the QuarryNZ site: www.quarrynz.com

Download a copy of the Registration Form and return to Roger Parton as soon as possible.

From the Secretary/Treasurer: Now that the new accounting software is installed and operating most of you should have received your invoice for this year's subs by now. Apologies for the accounts being late - the earthquake did shake things up a bit however it is encouraging to know that our backup system is working well! Note that the base amount stayed the same, however the increase in GST to 15% has meant the amount is different from last year. Any queries please contact chrisr@inet.net.nz.

"IRD Refund" Emails [sent from our Accountant Craig Hastie]

We have recently become aware that emails have been sent to some taxpayers purportedly from the Inland Revenue Department advising that the taxpayer is entitled to an income tax refund. These emails are bogus!

The Inland Revenue Department will never communicate directly by email with anyone regarding an income tax refund. Should you receive such an email it is strongly recommended that you do not reply and that you permanently delete the email.

AEG Christchurch Factory Expansion: Our Christchurch branch in NZ is taking a proactive approach in these tough economic times to double the size of its manufacturing and

warehouse facility. Our sales & admin team will also be re-housed in a new two story office block in March 2011.



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