

PRECAST NEWS 09

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PRECAST NEW ZEALAND INC. WWW.PRECASTNZ.ORG.NZ



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WORD FROM THE PRESIDENT



Spring is in the air and welcome to the 9th issue of the Precast New Zealand Incorporated (PCNZ) newsletter.

On the 17th of June 54 members and associated members including all past presidents gathered to celebrate a major milestone. A celebration to mark 10 years since PCNZ was formed. The organisation, representing 20 precast concrete companies nationwide and 21 supporting suppliers and customers as associate members, celebrated the achievement at a function in Epsom, Auckland.

PCNZ has contributed to a robust and dynamic industry through ongoing support for trade training and skills development, along with its strong representation before government, the continued improvement of regulatory provisions, and the establishment of a compliance system for members.

While the precast industry can be justly proud of what it has accomplished over the past 10 years, the future holds many exciting opportunities, including the implementation of a plant certification scheme. Working towards this objective will ensure precast concrete remains the construction material of choice for suitable applications.

In the current recessionary environment the need for strategic and proactive industry representation, such as that provided by PCNZ, is more important than ever. Since its inception in 1999, PCNZ will continue to work tirelessly on behalf of its members to research, develop, promote and protect the interests of the precast concrete industry within New Zealand.

This organization was conceived and continues to be run by people passionate for the precast concrete industry and that I firmly believe is the secret to our success. Thank you to everyone that has dedicated their invaluable time to support this great organization. A special thanks to Ross Cato and Rod Fulford.



Presidents with years in office noted in brackets from left are: Ross Cato (Executive Officer), Murray Ford (2004-2005), Russell Bennetto (2005-2008), Peter Watson (2002-2004), Paul Sweetman (1999-2002), John Marshall (2008–current), Rod Fulford (Executive Director).

One more thing before you enjoy your read. At the Executive Meeting in Queenstown Andrew Sinclair (Wilco Precast) was nominated and accepted to fill the position of Vice President left void by Ron Dickson. Congratulations Andrew.

Looking forward to catching up with everyone again at the Annual Concrete Conference in Rotorua 8th–10th of October where you will be welcome to join our AGM to be held on Thursday morning, 08 October 2009, 11:00am at the conference venue.

John Marshall *President Precast NZ*

01 Building & Construction ITO (BCITO) >

Precast NZ (PCNZ) representatives who are working with BCITO are Colin Beavis (Wilco) and Greg Fleming (Bradfor's). They are assisting in the preparation of Unit Standards to train factory workers to achieve unit standards in Precast Concrete. PCNZ promotes the training of workers to assist with the delivery of quality precast concrete products into the market place.

This year new Unit Standards trainees number 31 and our congratulations to the 6 unit standard completions, NZ wide, to 25 September 2009.

Trainees currently undergoing unit standard training within the precast industry number 88.

02 FLOORING > Flooring Overview Group (FOG) - Dept. of Building & Housing (DBH)

The Preliminary April 2009 draft for assessment and retrofit of hollowcore floors for seismic performance is currently being reviewed and will be reissued.

A guide to assist designers of hollowcore floors for use in new buildings will be prepared by Precast NZ and the Cement & Concrete Association of NZ.

Flange Supported Double Tees – Loop Bar Detail

Following successful testing of a loop bar detail conducted by BRANZ, a meeting was convened by DBH to review the results and consider future testing of the detail. This was attended by personnel involved in testing, research, consulting, SESOC, DBH as well as PCNZ.

Although no failures or matters of concern had ever been observed over 35 years of use, some concern was expressed that conditions could arise under extreme seismic deformation of supporting structures that could impose actions not covered by testing to date. It was also of concern to some that the performance of the detail could not be justified using design rules in the current codes of practice.

The primary concern expressed at the DBH convened meeting was that a strut and tie analysis of the system would require a tensile force to be provided by concrete. Traditional design ignores the ability of concrete to sustain direct tensile forces and reinforcing is incorporated to provide the tension forces required. In fact tension is relied on in all concrete design. Shear capacity of floor slabs, and development of tension in reinforcing are two such situations.

A proposed amended detail has been submitted to SESOC for comment prior to further testing but at the time of writing a response had not been received.

Flange Supported Double Tees – Other Details

Stahlton Engineered Concrete is continuing with testing of their “Zeus” detail. At the time of writing, a number of tests had been carried out on this but the results had not been published. A paper on this is expected to be presented at the Concrete Conference.

Seismic Retrofit Research Board

No further meetings or action.

03 NZ Building Subcontractors Federation (NZBSF) > Registered Master Builders (RMB) / NZBSF - Standard Subcontract Conditions –

A working group comprising 4 members from Registered Master Builders and 4 from NZ Building Subcontractors Federation has produced a combined subcontract agreement intended to replace the current SC1. Rod Fulford has been very active on this on behalf of PCNZ and subcontractors.

The new Subcontract does not materially change the responsibilities of the parties or the basis on which the work is carried out.

It is a larger document because it specifically covers more situations. Its format is modelled on NZS 3910. Once parties are familiar with the document, there will be little need to refer to the bulk of it as much of the information relating to contractual matters and allocation of risk that the subcontractor needs to know when pricing and entering into a subcontract is set out in the Subcontract Specific Conditions at the front of the document.

It encourages the use of pre letting meetings and has a suggested format for this as well as other sample forms that may be required.

The document does not promote the use or otherwise of bonds in lieu of retentions, but sample forms are provided for the occasions where they are used.

Tables in the Subcontract Specific Conditions in some cases require a simple yes or no response, and in others specific information such as retention levels or time frames are required. Sample figures have been inserted where required, any of which may be changed by agreement.

The document has been approved for publication. Release, promotional and educational matters are under consideration.

Subcontractor or Specialist Trades ?

At the NZBSF AGM held on 18 September 2009 a proposal to adopt a new logo combined with a name change was formally adopted. The new name of the society shall be “New Zealand Specialist Trade Contractors Federation Incorporated” (to be referred to as the “Federation”).

The new logo, also formally adopted to complement the name change, follows. It is hoped a change of terminology will recognize the real significance of the specialist



trade organizations, and also inspire some to lift their game and become more professional. The name change and logo will shortly be promoted to industry. Also at the AGM **Victoria Troake** was installed as the new President of the Specialist Trade Contractors Federation.

Victoria is also vice president of the Association of Walls and Ceilings Industries and is a member of the technical working group for the NZ Green Building Council, Beacon Pathway and BRANZ who have developed a framework for a new residential rating tool.

Victoria holds a Bachelor of Business Studies in Economics and has recently completed a Masters of Business Administration (MBA) at Massey University. The research topic for her masters was studying the impact of the Construction Contracts Act (CCA) 2002 on cashflow and payment behaviour in the NZ construction industry. Her other interests include industry training, construction and demolition waste and sustainable business practices for small to medium enterprises (SME's) in the construction sector.

04 Prison Labour - Corrections Inmate Employment (CIE) – Market Place

Activities > PCNZ has again met with Hon. Judith Collins and CIE representatives. A proposal was put to the Minister that a joint CIE / PCNZ task force could meet to consider a way forward that was acceptable to both parties. Terms of reference will now be drafted to specify the function of the combined task force to report back to the Minister on acceptable solutions.

05 Industry Review of the Department of Labour – Code of Practice for the Safe Handling, Transportation and Erection of Precast Concrete >

Precast New Zealand and industry representatives have completed the Code of Practice review. The final draft has been forward to the Dept. of Labour for publication and Ministerial approval.

06 Precast New Zealand Inc. - Plant Certification – The first application >

Paul Sweetman (HEB Precast) has been the first plant to apply for Plant Certification under the new scheme introduced during 2009.

The application will be assessed against approved criteria set by the Executive of Precast NZ. All corporate members of Precast NZ have been asked to make application by December 2010. It is a comprehensive scheme and it is expected that it will become the standard by which the manufacture of quality precast products will be measured in New Zealand.

**07 NZ Concrete Industry Conference
October 2008** > This year's NZ

Concrete Industry Conference will again be held at the Rotorua Convention Centre from 08-10 October 2009. The conference will be an engaging and entertaining weekend providing plenty of opportunity for networking, learning and fun, in one of New Zealand's most popular holiday destinations.

The Precast NZ **Annual General Meeting** will be held at the conference on Thursday 08 October starting at, 11.00am to finish at 12.30pm.

08 National Precast Concrete Association of Australia (NPCAA) >

On the 21 August 2009 the fourth bi-annual joint meeting of the New Zealand and Australian precast associations was held in Queenstown over two days. The formal meeting was attended by thirty corporate and associate members of the precast associations, occupied the best part of a day and covered topics of mutual interest. A further half day included informal and social sessions and site visits to the Kawerau project, the aquatic centre and the Hill Golf Course club house and a joint dinner.

The next meeting will be held in two years time at a venue in Australia.



Links to NPCAA technical publications

Are you interested in obtaining technical / architectural data about precast buildings and sustainability?

Then the following link will take you to the NATIONAL Precaster published by the National Precast Concrete Association of Australia.

<http://www.npcaa.com.au/datasheets/Prec53.pdf>

Australian & NZ Precasters at the Michael Hill Golf Club site visit and surrounded by exposed aggregate precast panels supplied by Bradford Precast.

MEMBERSHIP

CORPORATE MEMBERS	PHONE No.	ASSOCIATE MEMBERS	PHONE No.
Ashburton Prestress Concrete	03 308 2397	0800 Ducting Ltd	0800 38 28 46
Atlas Tilt Slab	09 426 9497	Allied Concrete	03 217 1612
Bradford Precast Ltd	03 308 9039	Argon Construction Ltd	09 274 5672
Busck Prestressd. Conc Ltd	09 438 3059	BASF Construction Chemicals NZ Ltd	09 414 7233
C. Lund & Son Ltd	03 349 6900	Bridgeman Concrete	06 879 7254
Emmetts Civil Construction Ltd	06 349 1788	Canzac Ltd	03 343 4254
Formstress Precast Ltd (Waiuku)	09 235 7257	Demden Ltd	07 575 5410
Heb Precast	07 575 2325	Firth Industries /Certified Conc.	09 525 9193
Hynds Pipe Systems Ltd	09 274 0316	Fletcher Reinforcing Ltd	09 270 4247
Lattey Civil Engineers Ltd	06 879 8364	Golden Bay Cement	09 525 9031
Precast H.B. Ltd	06 835 8315	Holcim New Zealand Ltd	09 634 0132
Smith Crane & Construction Ltd	03 359 7759	Humes Pipeline Systems	09 580 0781
Stahlton Engineered Concrete	0800 STAHLTON (0800 782 45866)	Mainzeal Property & Construction Ltd	09 375 2100
Stevenson Precast Sys. Ltd	09 274 0726	Mike Herlihy Consulting Ltd	03 325 1165
Stresscrete Northern Ltd. (Papakura)	09 295 0610	Nawkaw Australia	09 486 1615
Stresscrete Southland Ltd	03 218 6709	RC Macdonald Ltd	04 472 4924
Stresscrete Wellington Ltd. (Otaki)	06 364 8126	Reid Engineering Systems	09 444 4122
TheIn Construction	03 544 8906	S Austin Carr & Co Ltd	09 535 5245
Wilco Precast Ltd	09 295 1060	Sika (NZ) Ltd	09 828 7002
Wilson Precast Construction Ltd	09 294 7207	Vulcan Steel Ltd	09 273 7214
		Unicon Systems Ltd	03 351 9952



Overview:

BUSCK Prestressed Concrete Limited is a family business that was established in 1946 on the banks of the Hatea River in Whangarei. In the late 70's early 80's the business was purchased by senior staff and shifted to the other side of the Whangarei Harbour to a purpose built factory complete with batching plant, two prestress bays and an overhead portal crane that travels over the water to enable barge loading facility. Since the 80's the company has experienced large growth both in product range and also additional satellite factories throughout New Zealand, (Hamilton 2008, Palmerston North 2005, Christchurch 2008 and Invercargill 2008).

Also added to the Whangarei site is a stand alone Reinforcing steel supply factory and a power pole and associated products factory.

The direction of the company has also changed in recent times tending to focus more on standard concrete products such as power poles, railway sleepers and proprietary systems for the dairy industry, while still supplying to the local and Auckland construction market.

Product Range:

Wall panels, beams, columns, stairs, bleachers, Prestressed flooring, power poles, rural products, bridge beams, balconies, septic tanks, stock troughs, box culverts, stair treads, special finishes, landscaping products.

Recent Projects:

Work is well underway at the site of the new Northland Events Centre (Home of the mighty TANIWHA) for which Busck are supplying the main contractor, Argon Construction, with the full precast package. Busck became involved in the project very early on, enabling value engineering of the design to help meet the fixed budget for the project whilst ensuring the challenging timeframe was not put at risk.

Other projects that Busck have recently been involved in include the Deloitte Centre on Queen Street for Brookfield Multiplex, the Whangarei Police Station for Watts & Hughes, Kings Square for Clearwater Construction, Ironbank for Macreddie Construction, New Ward Block at Middlemore Hospital and University of Waikato Student Centre for Fletcher Construction

Client Services:

- Technical & Cost advice at design stage
- Comprehensive Estimates / Quotations from tender documents
- In-house draughting / shop drawing
- Proactive project management
- High quality products delivered on time & on budget
- Producer Statements

For More information:

Busck Prestressed Concrete Ltd, 8 Fraser St, Whangarei

Telephone: 09 438 3059

E-mail: info@busck.co.nz

www.busck.co.nz



Busck Whangarei site viewed from the air.



Deloitte Centre, Queen St. Currently nearing completion by Brookfield Multiplex. Precast Stairs by Busck.



The South stand of the new Northland Events Centre , Whangarei, begins to take shape. Busck are supplying the entire Precast package including stairs, panels, bleachers, flooring, beams and balconies.



Overview:

R.C. Macdonald Ltd is a family business founded in 1950 by the late Ron C. Macdonald and presently operating under the guidance of Ron's son, John, from our Head Office in Wellington. R.C. Macdonald Ltd have been importing and supplying Prestressing Strand to your industry in New Zealand since 1982. The company has operated similarly in Australia since 1990.

We are the Australasian agents for the Indian steel maker, Tata Steel. Tata are now a huge conglomerate owning steel mills in Great Britain, Holland, China, Singapore, Thailand and other Asian countries. Within that empire are Wuxi Jinyang Metal Products of China and Siam Industrial Wire of Thailand. Most of the strand we import comes from either of these two mills. We chose to support these mills because they are fully compliant with the AS / NZS 4672 standard (including parts 1 & 2) : 2007.

Over the years the advances in the construction industry have increased the demand for superior quality products. The buildings and structures that we erect today must survive the test of time well beyond our generation. We need to ensure that the quality of building materials meets the highest possible standards. So it is important to R.C. Macdonald Ltd and to our customers that this standard is met in its entirety by our mills, so that all parties can have complete confidence in the strand supplied.

Both Wuxi and SIW's production lines and in house testing laboratories are fully certified and audited by our industry's watchdog, the Australian Certification for Reinforcing Steels Ltd (ACRS). If you were to visit ACRS website (www.acrs.net.au) and follow the links 'Certificate Holders' / 'Prestress Manufacturers' you will see there are only 6 mills world wide that can claim ACRS accreditation. R.C. Macdonald Ltd proudly represent two of them (SIW and Wuxi) here in New Zealand. Their compliance to the entire standard as well as the additional accreditation to ACRS gives our clients a 'sleep easy' factor to their business's and to the projects they are responsible for.

As stockists of PC 7 Wire Prestressing Strand, we offer an ex stock service out of Auckland, Wellington, Christchurch and Dunedin as well as the East Coast of Australia. An indent service is also available and your enquiry to one of our offices in Auckland, Wellington or Christchurch will receive prompt attention from one of our 6 sales staff.

For More information:

Please feel free to visit our Company Website:

www.rcmacdonald.co.nz or contact the writer should any further information, or indeed our Company's services be required.



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