

# STEEL FUTURES



Latest Industry & SCNZ News

July 2017

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## IMPORTANT DATES:

14 Sept ~ SCNZ Executive Council meeting

2 - 5 Oct ~ International Steelwork Contractors Group

15 Sept ~ Steel Agenda (AGM) & Gala Awards Dinner

14 - 17 Feb 2018 ~ STESSA '18

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## PLANNING FOR SUCCESS: SCNZ STRATEGIC PLAN

An SCNZ strategic planning session was held on 18-19 May in Auckland.

Facilitated by Bruce Ross from Ignite Business Leadership, the session was well attended by a

broad mix of stakeholders – mainly fabricators but also staff, members of the Executive Council, and other SCNZ members.

On the day, the team produced a blueprint for a five-year strategic plan based on five separate strategies:

- Marketing Internal
- Marketing External
- Educational Internal
- Educational External
- Facilitating Success.

Using this blueprint, SCNZ has now produced an itemised five-year plan with individual targets and measures for each year, which has been approved by the SCNZ Executive Council and will subsequently be sent to the rest of the strategic planning session attendees.



The plan, measures and priorities for the next financial year are currently in the process of being approved by the Executive Council.

Darren O’Riley, SCNZ Manager, comments: “Overall this was a great effort by all to not only contribute and participate, but to produce a workable direction for SCNZ over the next five years.”

**Darren will present an overview of the five-year strategic plan at [Steel Agenda](#) on the 15 September in Christchurch.**

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## **INDUSTRY NOTIFICATION: CRITICAL CORRECTIVE ACTION (PEGASUS ENGINEERING)**

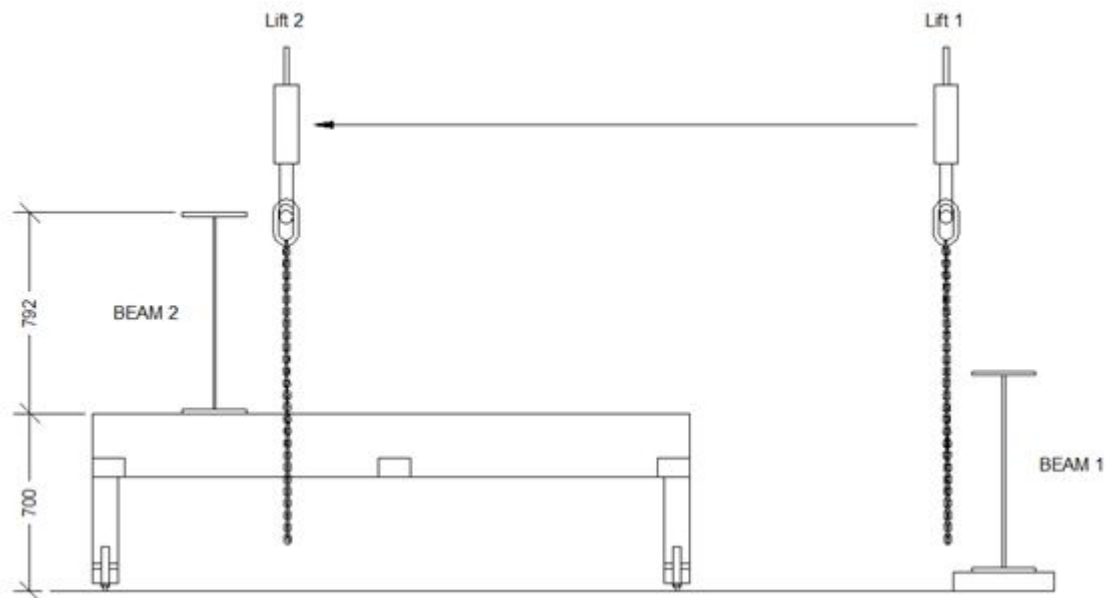
As many of you will be aware Pegasus Engineering had a fatality at their premises in June when a beam rolled whilst being readied for a lift.

Whilst the full investigation is yet to be completed, Pegasus feel compelled to circulate their findings to date in an effort to prevent a similar tragic occurrence at another facility.

**It is important and critical that you read this information, share the findings with your staff, and if necessary implement any appropriate actions to minimise risk.**

### **Accident Description:**

- Crane hook is loaded with a chain assembly consisting of master link, two long chain legs and two short legs with shortening hooks
- First beam is lifted from the carriage to the floor
- Second beam is sitting in a vertical position on a mobile carriage (approx. 700mm off the floor) in readiness for the lift and repositioning to the floor



- First beam (beam 1) lifted and lowered to the floor and the chains are removed
- Chains are positioned in preparation for the lift of the second beam (beam 2)
- Crane operator traverses the gantry crane hook in readiness to lift the second beam from the trolley
- Operator positions himself on the opposite side of the beam to the crane hook in readiness to pull the chains under the beam and back to the chain to form a bite
- In the process of positioning the chains it appears the operator has repositioned or lifted the crane hook which has resulted in some part of the crane or rigging equipment catching the beam and tipping it towards the operator who was positioned beside the trolley.

### Analysis:

It is unclear why the operator appears to have repositioned the crane but this could be a result of incorrect positioning of the crane prior to positioning the lifting chains i.e.

- Crane hook height not adjusted after the first lift
- Chain not exposed above the top flange
- Shortening hooks not exposed if he was to use shortening hooks
- Chain bunched on the floor and the chain hook not exposed.

### Remedial Action:

- Fitting of stanchions with stanchions only to be removed after lifting chains rigged and slack taken up
- Clamping of beams whilst in the vertical position
- If no stanchions fitted vertical beam to be positioned at least 1.5 x the beam height from the edge of the horizontal supporting beam
- If stanchions fitted vertical beam to be positioned at least 0.5 x the beam height from the edge of the horizontal supporting beam
- Stanchions to be at least 50% of the height of the vertical beam.

Darren O'Riley, SCNZ Manager, comments: "On behalf of SCNZ and our members, I would like to thank Simon Williamson and the team at Pegasus Engineering for sharing this information with us, in what is no doubt a very sad and difficult time."

“As the event is currently under investigation, we kindly ask our members to allow the Pegasus team time to complete the necessary investigations before requesting further information.”

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## DATE FOR YOUR DIARY: STEEL AGENDA & AGM 2017

We are pleased to announce that the **SCNZ Steel Agenda & AGM** will be held at Chateau on the Park in Christchurch on 15 September.

Open to all, this year’s jam-packed Steel Agenda offers a Members’ Forum, SCNZ AGM, Metals NZ Plenary, Gala Dinner and our annual **Apprentice of the Year** presentation.

The social programme kicks off on the evening of Thursday 14 September, when early arrivals are welcome to join the Council for casual drinks.

On Friday morning, thrill-seeking delegates can visit the **Supa Karts Endurance Race** for high octane fun before heading back to Chateau on the Park to freshen up and enjoy a working lunch.

The conference activities will kick off in the afternoon with Darren O’Riley, SCNZ Manager, welcoming delegates and presenting the SCNZ five-year strategic plan.

This will be followed by the SCNZ AGM chaired by Bob Hawley, MD of Red Steel and SCNZ Chairman; and the Members’ Forum, which will combine informative and inspirational speakers:

- **Alistair Fussell, Tangent Consulting & SCNZ Consultant**  
Compliance and material traceability
- **Steel Building Case Study: Pacific Tower Building, Christchurch**  
Presented by Sean Gardiner, Calibre Consulting
- **Keynote Speaker: Dale Williams, Former Major of Otorohanga**  
A passionate and entertaining speaker, Dale has a wealth of practical experience in supporting young people into work and in community leadership. Hear from this widely recognised leader of change why there’s not a moment to lose for all our communities to target the Zero Waste of Youth!



The Forum will conclude with a celebration of the latest companies to achieve SFC certification, after which delegates will be transported to Addington Raceway for the **Metals NZ Plenary Session**.

Scott Fuller, Metals NZ Chairman will welcome delegates to the Plenary and introduce two speakers:

- **Lianne Dalziel, Christchurch Mayor**  
Overview of the Canterbury rebuild and what's beyond
- **Rod Oram, Economic Commentator**  
Economic and political drivers affecting & shaping your industry.

The day will be rounded off with pre-dinner drinks and the dynamic **Industry Awards Gala Dinner**, at which our annual **Apprentice of the Year Award** will be presented.

Delegates are encouraged to stay at the tranquil Chateau on the Park, which boasts a vineyard, outdoor heated pool and beautiful rose garden. Everyone is encouraged to bring along partners and families to take the opportunity to extend the stay in this quirky and inspiring destination into a weekend break.

**We look forward to welcoming you to Christchurch in September. A full programme and details on how to register are available [here](#).**

## **DON'T DELAY! 2017 EXCELLENCE IN STEEL AWARDS CLOSING SOON**

The biennial Excellence in Steel Awards, administered by SCNZ, are now open for entries but don't leave it until the last minute.

Are you a fabricator, architect, engineer or builder who has been part of a successful building project in the last two years that you feel deserves national recognition? Then you might have what it takes to be one of our 2017 winners.

The Awards identify projects that showcase the exceptional design and execution possible when steel is used as the principal construction material in buildings and infrastructure projects. As well as highlighting the versatility of steel, the Awards also recognise the significant capability of New Zealand's structural steel industry.



*Tait Communications (Christchurch) - Aurecon  
Winner \$1.5m - \$3.0m category 2015 Excellence in Steel Awards*

### **Why enter?**

The winners will be announced at the **Industry Awards Gala Dinner on 15 September**. Hosted at Addington Raceway in Christchurch, this highly anticipated event will be attended by industry professionals, academics and international guests. Winners will be commended for their considerable expertise by industry peers and endorsed by SCNZ, as well as promoted to the media and the building industry as specialists in steel construction solutions.

## Eligibility & Judging

The judging criteria reflects the reality that a successful building project is a team effort comprising architects, engineers, builders and fabricators. Projects nominated must feature steel structures built by SCNZ steel constructors using New Zealand-fabricated steelwork and have been completed between 1 February 2015 and 31 March 2017. The independent judging panel will comprise notable and successful professionals across structural engineering, architecture, construction and structural steel fabrication.

Previous winners include University Cycleway Bridge (PFS Engineering), Tait Communications (Aurecon) and the Avantidrome 'Home of Cycling' (Jensen Steel).

**Entries must be received no later than 1 August 2017. Further information, assessment criteria and entry forms are available [here](#).**

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## WELDING TRAINING SCHOLARSHIPS DEADLINE EXTENDED

Several of our welding training scholarships to help companies achieve SFC certification are still available on a first come, first served basis.

A number of companies have already taken advantage of the offer but we are extending the cut-off date so if you are considering applying for SFC certification, make sure you submit your application for a scholarship ASAP.

The scholarships were launched following a unanimous resolution by SCNZ members for all Steel Constructor members to become certified under the [Steel Fabricator Certification \(SFC\) Scheme](#) over the next four years.

An important requirement for a certified fabricator is to have welding supervisors certified to AS/NZS 2214: Certification of welding supervisors – structural steel welding. These courses are offered by the HERA Welding Centre at a cost of \$1800. Companies who have previously sent personnel on these courses have been able to use those personnel to then develop the necessary quality management systems for the SFC scheme, without the need to employ outside expertise.



SCNZ is offering training scholarships for these courses to companies who meet the following criteria:

- They employ 15 or less staff;
- They currently do not have an AS/NZS 2214 certified welding supervisor;
- They apply to become an SFC certified fabricator.

**The scholarships will only cover the cost of the courses (not associated costs like travel, etc); and are limited to one person per company.**



Darren O’Riley, SCNZ Manager, comments: “We urge companies to snap up this time limited opportunity and take an important step towards becoming SFC certified.”

**Applications for the training scholarships will now close on 30 September 2017.** For more information, please contact Darren O’Riley (email: [darren.o'riley@scnz.org](mailto:darren.o'riley@scnz.org) or phone: 09 262 6684) or Michail Karpenko (email: [michail.karpenko@hera.org.nz](mailto:michail.karpenko@hera.org.nz) or phone 09 262 4849).

## NEW FACT SHEET LAUNCHED AT JULY FORUMS

A new SCNZ Fact Sheet, Evaluation of Product Conformity, was presented recently at the successful July Regional Fabricator Forums.

This is the second in an ongoing series of fact sheets that SCNZ is publishing with the goal of informing and educating our industry.

**We will be mailing copies out to all members. There is also a downloadable pdf version in the [Literature](#) section of our website.**

We would also like your assistance in promoting and disseminating these resources as widely and effectively as possible.

Thank you to everyone who attended the July Forums - watch this space for details of the Forums later in the year.

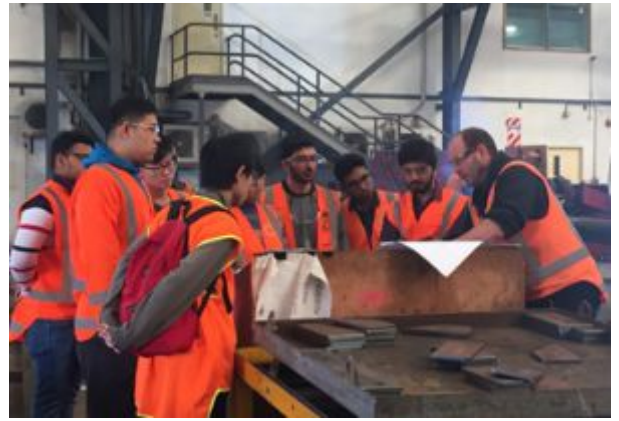


## BUILDING FOR THE FUTURE

As part of our ongoing commitment to demonstrating the benefits of structural steel to the next generation, SCNZ recently gave final year engineering students from The University of Auckland a behind-the-scenes insight into the world of steel construction.

As part of the annual field trip organised by SCNZ, the students and their lecturer, Charles Clifton – Associate Professor of Civil Engineering, were shown around the George Grant Engineering (GGE) steel fabrication facility at Hunua Road, Papakura.

On arrival, the students were welcomed by Kevin Cowie, SCNZ Senior Structural Engineer, and Janani Grant, Detailing Manager at GGE. Janani gave a brief presentation about GGE and then the students were divided up into two groups. Each group was taken around the purpose-built facility and viewed the computer-controlled fabrication equipment up close. They also observed manual welding and painting operations and were introduced to detailing using 3-D modelling software.



*Paul Katavich from GGE talking to the students*

Kevin Cowie comments: “The students and their lecturer were very impressed with what they saw at GGE and the visit really opened their eyes to how design impacts on fabrication and constructability of projects.”

Next stop was a live steel construction project. Following refreshments, the students travelled to the [Wynyard Central Apartments](#) building site, where they were briefed by Aaron Lindsay, LT McGuinness Project Manager and shown around.

Situated in the heart of Wynyard Quarter, Wynyard Central is an intimate community offering a unique waterfront lifestyle. The site is well connected (to the waterfront, downtown and the best city-fringe locations) but presents interesting challenges because it is located on reclaimed land and there is a lot of construction activity in the vicinity.

The project demonstrates the considerable advantage of using structural steel to overcome such challenges and how construction sequence flexibility is achieved using structural steel.

The students’ lecturer, Charles Clifton, comments: “The feedback on this field trip was excellent. The students were very enthusiastic about the construction site visit and found the whole experience very worthwhile and informative.”

SCNZ would like to thank [George Grant Engineering](#) and [LT McGuinness](#) for giving so generously of their time to make this field trip a valuable exercise.

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## ORDER YOUR CUSTOMISED SFC BROCHURE

SCNZ is giving SFC certified fabricators the opportunity to have their own version of the [Steel Fabrication Certification for NZ Specifiers](#) brochure printed.

The informative brochure has now been available for a few months as a downloadable pdf on our [website](#) and has recently been updated to include additional comment from the Building Officials Institute of NZ. This new version will be available online shortly.

The updated brochure is now ready to go to print. As a key component of our campaign to raise awareness of the SFC scheme, SCNZ will be widely distributing the generic version to the



marketplace.

However, the brochure can also be customised for fabricators to include their own logo, category number, SFC number and contact details.



Example customised version of the Steel Fabrication for NZ Specifiers brochure

Printing must be done via SCNZ to ensure quality and the costs are detailed below:  
*colour on two sides, 200 gsm satin gloss*

- 500: \$750.00 plus GST
- 1,000: \$1,240.00 plus GST
- 2,000: \$1,885.00 plus GST
- 3,000: \$2,185.00 plus GST

To order your customised brochure, contact Rebecca Symonds, SCNZ Administration & Marketing Officer (email: [rebecca.symonds@scnz.org](mailto:rebecca.symonds@scnz.org) or phone: 09 263 5638).

## SCNZ AT THE NZSEE 2017 CONFERENCE

From 27-29 April, SCNZ's Zahid Hamid (Structural Engineer) attended the New Zealand Society for Earthquake Engineering Conference (NZSEE) in Wellington.

Combined with the 15th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, the annual technical conference attracted a significant contingent of international delegates.



The conference theme, “the next generation of low damage and resilient structures”, reflects current developments, research and implementation in New Zealand following the severely damaging earthquakes in Christchurch, and international trends for seeking improved earthquake performance from structures.



Zahid Hamid (second from left) and Charles Clifton (middle) with University of Auckland PhD students

Zahid Hamid presented a paper he co-authored with Robert Tremblay (Polytechnique Montreal, Canada) and Charles Clifton (the University of Auckland) on *Comparison of Seismic Design Provisions for Buckling Restrained Braced Frames in Canada, United States, Chile, and New Zealand*.

Zahid commented: “The conference successfully showcased current developments in design practice in New Zealand and internationally for achieving greater resilience in earthquake design of structures and infrastructure. The steel session was a particularly rewarding and relevant breakout session. Our research was well received and we were afforded valuable networking opportunities.”

For more information, please click [here](#) or contact Zahid Hamid, Structural Engineer (email: [zahid.hamid@scnz.org](mailto:zahid.hamid@scnz.org) or phone: 09 262 6681).

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## 2017 COATINGS & CORROSION

From 28-29 August, the [Coatings & Corrosion Conference and Exhibition](#) will be held in Auckland. This is the premier event for asset owners to meet with industry experts to mitigate and minimise the cost and effects of corrosion in the industry.

The event will feature international and domestic thought leaders delivering case studies, new developments and innovations in the field.

Expert insights on corrosion protection will be delivered by:

- RB Corrosion Services
- Linetech Consulting
- Ballance Agri Nutrients
- The University of Auckland
- G Group Consulting
- Canada Street Overbridge
- SGS
- ICS – Inspection and Consultancy Services
- Callaghan Innovation.



Two separately bookable workshops are also available: *Passive Fire Protection* and *Understanding Changes to Standard AS/NZS*

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Please click [here](#) to see the full agenda and to register as a delegate.

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## NEW SFC CERTIFIED FABRICATOR

Congratulations to **E-Type Engineering** who have achieved their Steel Fabricator Certification.

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## NEW SCNZ MEMBERS

SCNZ welcomed five new members during the fourth quarter ending June 2017.

### Professional (Engineer)

STA Consulting Engineers, Queensland  
Ansari Consulting & Project Management, Auckland

### Affiliate (International Steel Supplier)

Stemcor (NZ) New Zealand

### Affiliate (General)

Rhino Grating, Auckland

### Professional (Academic Student)

Gary Djojo, University of Auckland

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