

STEEL FUTURES



Latest Industry & SCNZ News

May 2017

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IMPORTANT DATES:

16 - 18 May ~ Steel Structures Seminars

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

5 July ~ Northern Fabricators Forum

2 - 5 Oct ~ International Steelwork Contractors Group

13 July ~ Central Fabricators Forum

14 - 17 Feb 2018 ~ STESSA '18

20 July ~ Southern Fabricators Forum

PLANNING FOR SUCESS: 2017 SCNZ STRATEGIC PLAN

A planning session for our five-year SCNZ Strategic Plan will be held over the afternoon of Thursday 18 May and the morning of Friday 19 May, offsite in Auckland.

The five-year Strategic Plan will be the blueprint for the organisation going forwards, focussing our energy and resources, and building on the fantastic work that has already been done.

A sub-committee of the SCNZ Executive has appointed Bruce Ross from Ignite Business Group to assist with reviewing and updating our five-year vision and mission.

Bruce will facilitate the Strategic Planning Session, which will involve SCNZ staff and the Executive Council, as well as representatives of HERA and Metals NZ, and selected industry representatives (predominantly fabricators). We will shortly be contacting each of the Regional Fabricator Representatives to ask for suggestions regarding participants.



Darren O'Riley

The results of the Strategic Planning Session will be made available to the wider SCNZ Membership in due course.

Darren O'Riley
SCNZ Manager

Darren is based in our Auckland office and can be contacted on phone: 09 262 6684 or email: darren.o'riley@scnz.org.

2017 EXCELLENCE IN STEEL AWARDS - OPEN FOR ENTRY



As announced at the recent Fabricators Forums, we are proud to confirm that the [2017 Excellence in Steel Awards](#), administered by SCNZ, are now open.

The biennial Awards celebrate excellence in the field of steel construction in New Zealand by identifying projects that demonstrate efficiency, construction quality, sustainability, aesthetics, best practice, great safety management, and innovation.

In 2015 the judging criteria was widened to recognise that a successful building project is a team effort comprising architects, engineers, builders and fabricators.

This showcase event was a highlight of the Industry Awards Gala Dinner held during Metals Week in 2015, when 400 industry professionals came together to celebrate business excellence achievements from across the sector.

This year the winners will be awarded at the 2017 Gala Dinner on 15 September in Christchurch. SCNZ Manager, Darren O’Riley, comments: “It is important that as an industry we promote the wonderful projects we undertake and demonstrate to the wider public how our industry contributes to producing aesthetically pleasing, iconic and safe structures.”

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

Entries must be received no later than 1 August 2017 so now is a good time to start identifying projects that you would like to receive national recognition for and to talk to the other team members to get them on board.

Further information, assessment criteria and entry forms are available [here](#).

NEW COMPOSITE BRIDGE STANDARD, AS/NZS 5100.6 PUBLISHED

The new revised Composite Bridge Standard was released on 31 March 2017.

In the past New Zealand’s standards for bridge design for steel and composite construction have relied on using portions of other overseas standards to stay up-to-date, which haven’t necessarily satisfied local needs or developments. In 2011 it was recognised that this would have to change if we wanted to compete on a global stage, remain up-to-date with a rapidly changing engineering environment, and proactively react to the proliferation of smarter technologies and new materials.

This led to the redevelopment of the entire AS 5100 standards suite as joint New Zealand and Australian Standards. A challenging process - ably led by HERA and their General Manager, Stephen Hicks – requiring much consultation, now six years on the publication of the first joint New Zealand and Australian design standard AS/NZS 5100.6 Bridge Design marks a significant milestone.

The new standard addresses long-held concerns about NZ standards when it comes to application of fatigue design in steel bridges – where some designers have had trouble interpreting the current design rules and others have found them overly conservative in their approach.

The standard takes a major step to rectifying this by enabling all parties to speak the same language when it comes to products or processes in the design of bridges for steel and composite construction, and greater alignment with international best practises. Also in some cases the new standard significantly improves guidelines to increase design efficiencies and productivity to deliver more cost-efficient designs.



The publication of AS/NZS 5100.6 has enabled HERA and SCNZ to ensure that design assumptions previously made remain valid by directly referencing AS/NZS 5131 to allow minimum levels of workmanship to be achieved, while complementing the SFC scheme in certifying NZ fabricators to manufacture structural steelwork to international best practice.

Like the European steel structures design standard Eurocode 3, it also provides the guidance needed for designers to easily and more confidently select the right construction category for the structure they are designing – removing the need for guesswork and time consuming assessments.

The recent inclusion of a New Zealand-only appendix also provides more clarity for selecting the appropriate European and Japanese grades of steel in design, together with specific welding and brittle fracture provisions. It's hoped that having a wider selection of steel products available will allow the flexibility needed to deliver steel bridge designs able to compete more successfully from a price perspective.

SCNZ and HERA have also worked with the University of Applied Sciences, Wilhelmshaven, Germany and University of New South Wales to include the Eurocode damage equivalent factor format. This has greatly simplified fatigue calculations and provided fabrication requirements for each particular fatigue-critical detail to avoid overly engineered and unnecessary approaches to meet standard requirements.

SCNZ believes that aligning to best practice should remain a key focus as we work to increase business opportunities for our members by successfully making the global marketplace fair for all.

If you'd like to know more about our work in New Zealand and international standards, please contact Kevin Cowie, Senior Structural Engineer - Technical Development (email: kevin.cowie@scnz.org or phone: 09 262 6685).

SECURE YOUR TRAINING SCHOLARSHIP TODAY

Several of our training scholarships to help companies achieve SFC certification, which we announced in the last newsletter, are still available on a first come, first served basis.

The announcement came 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 costs, etc) and are limited to one person per company.

Darren O’Riley, SCNZ Manager, comments: “We are very excited to offer these scholarships. It’s a great way to drive industry engagement as we work to ensure procurers and specifiers have greater certainty of product quality from New Zealand, and fabricators have proven procedures and personnel capable of working to international best practice.”

Applications for the training scholarships close on 30 June 2017. For more information, or to apply to become certified under the SFC scheme, please contact Darren O’Riley (email: darren.o'riley@scnz.org or phone: 09 262 6684) or Michail Karpenko (email: michail.karpenko@hera.org.nz or phone 09 262 4849).

SEARCH BEGINS FOR THE 2017 SCNZ APPRENTICE OF THE YEAR

We are proud to cast a spotlight on careers once again with the launch of the [2017 SCNZ Apprentice of the Year Award](#), which celebrates excellence amongst apprentice fabricators.



The SCNZ Apprentice of the Year Award, in

association with Weldwell, acknowledges people whose skills, drive, and willingness to learn and workhard has helped them to achieve outstanding outcomes. It recognises well-rounded apprentices who demonstrate not only talent in steel fabrication, but display traits important to the industry – commitment, innovation and agility.



*Apprentice of the Year 2016 Award Winner,
Tom Forbes*

This Award is part of our work to promote careers and training in the structural steel sector. Thomas Forbes of Napier-based steel fabricator Red Steel took out the inaugural Apprentice of the Year Award, which was announced during a gala dinner following SCNZ’s Steel Agenda (AGM and Conference) in September 2016.

“We are very excited about this search and would like to thank Weldwell for sponsoring

the Award for a second year,” says SCNZ Manager, Darren O’Riley. “Please help us to recognise the future of our industry and demonstrate the career path that is available in the New Zealand structural steel industry.”

Posters will be available to download shortly from our website to display in your workshop and if you know of someone with the potential to be the SCNZ Apprentice of the Year, encourage them to enter!

Entries for the SCNZ Apprentice of the Year Award must be submitted by 14 July 2017 and the winner will be presented with a trophy and \$1000 in prize money in September.

The judging panel will comprise of a fabricator; and representatives of award sponsor Weldwell, our industry training partner Competenz and the Heavy Engineering Research Association NZ Welding Centre.

More information on the Award, including details on how to enter, are available [here](#).

LAST CHANCE: MAY SCNZ SEMINAR SERIES

The 2017 edition of our popular [Steel Structures Seminar Series](#) is a must-attend event for practising structural engineers, builders, council building consent personnel, engineering students and academics.

Packed full of important structural steel design, standards and construction updates, the afternoon seminars will take place in May at the following venues:

Auckland – 16 May

Ellerslie Event Centre, Remuera

Christchurch – 17 May

Commodore Airport Hotel, Burnside

Wellington – 18 May

Copthorne Hotel, Oriental Bay



Designed to empower you to improve quality and reduce risk in steel construction, the seminars will give you the opportunity to hear directly from steel industry leaders, network with industry peers, and learn about how the [Steel Fabricator Certification Scheme](#) can help reduce risk in your projects.

First up will be an overview of the new Steel Fabrication and Erection Standard – AS/NZS 5131:2016. Attendees will learn how to apply a risk-based approach to achieve a fit-for-purpose specification for steel structures.

The half-day seminar will also explore how steel product conformity is assessed; the potential to achieve economy when designing and specifying bolted connections; and the latest research in

gusset plate design for seismic frames.

The full programme and details on how to register are available [here](#).

Please contact Rebecca Symonds, Marketing Administrator (email: rebecca.symonds@scnz.org or phone: 09 263 5638).

JULY REGIONAL FABRICATOR FORUMS

Thanks to everyone who attended the recent [Regional Fabricator Forums](#) and AS/NZS 5131 Workshops in April.

Despite challenges presented by a major power cut during the Auckland Forum and a storm that disrupted travel for Palmerston North, we received some excellent feedback.

Fabricators can log into our website and download the presentations from these forums [here](#).

Following these successful events, SCNZ is pleased to announce a second series of Forums for 2017 in July:



April Regional Fabricator Forum

Northern Chapter Forum - 5 July
Claudelands, Hamilton

Central Chapter Forum – 13 July
Venue TBC

Southern Chapter Forum - 20 July
Commodore Airport Hotel, Christchurch

To register for your local event, contact Rebecca Symonds, SCNZ Marketing Administrator (email: rebecca.symonds@scnz.org or phone: 09 263 5638).

INDUSTRY WORKING GROUP TO IMPROVE SUPPLY OF STRUCTURAL HOLLOW SECTIONS

Increased use of structural hollow sections in multi-storey structural steel buildings and the globalisation of structural hollow section manufacture has created challenges for the supply of such products to AS/NZS 1163 - Cold-formed structural steel hollow sections.

The problems are related to the relatively small market in Australia and New Zealand for hollow sections manufactured to this standard. They include difficulty in sourcing sections of the required size and a lack of recognised third party certification of Asian tube makers who produce larger sized sections to this standard.

An industry working group is being convened to address these challenges. The group will comprise steel merchants, fabricators and structural engineers. One of the options this group will consider is supplying larger size tubes to an international cold-formed structural hollow section standard such as EN 10219 (Cold-formed welded structural hollow sections of non-alloy and fine grain steels) or JIS 3444 (Carbon Steel Tubes for General Structural Purposes) and JIS 3466 (Carbon Steel Square and Rectangular Tubes for General Structure). Smaller sized sections would continue to be specified to AS/NZS 1163.

If this change in material specification were to happen, SCNZ and HERA would need to address the technical issues associated with ensuring compatibility of hollow sections manufactured to international standards with design and fabrication to NZS 3404. For example: structural reliability, welding to NZS 1554.1 and material selection to suppress brittle fracture.

SCNZ will provide guidance on requirements for third party product certification schemes and conformance assessment bodies who operate such schemes. The intention is to help industry and engineers identify schemes that comply with international best practice.

SCNZ will keep members and industry abreast of the key outcomes of the working group. Any change in material specification will require careful management to ensure an orderly transition from one supply standard to another.

60% SPARE CAPACITY REVEALED BY INDUSTRY SNAPSHOT REPORT

SCNZ's recent quarterly fabricator forward-workload survey has indicated that there is still significant spare industry capacity for the final two quarters of 2017 – estimated at 38,540 tonnes, based on a current estimated total capacity of 120,000 tonnes per annum.

The capacity of the structural steel industry – in particular, our fabricators - remains a topical issue as the construction sector experiences the biggest building boom in 40 years.

In the past 12 months, the New Zealand structural steel sector turned approximately 100,000 tonnes of structural steel (plate, hotrolled and hollow sections) into buildings and bridges through its network of steel distributors, fabricators and erectors.

This bi-annual report contains solid data on industry capacity, lead times, market share etc. and is a key tool in SCNZ's drive to convince the market that our industry has the capacity to satisfy demand.



SCNZ's third Structural Steel Industry Snapshot

Please take a moment to look at the [Structural Steel Industry Snapshot](#) and share it with your networks: include a link on your website, post on your LinkedIn profile, and refer to it in any direct communications you have with your customers, industry contacts and local MPs.

EXCITING SPONSORSHIP AND PAPER OPPORTUNITIES - STESSA '18

New Zealand is proud to be hosting the ninth STESSA Conference, sponsored by SCNZ, on 14-17 February 2018 at the University of Canterbury, Christchurch.



STESSA is the international speciality conference focussed on the seismic design of steel structures. This is the 9th edition of the conference which began in Romania in 1994 and has been held every three years since. Around 300 delegates attended the last conference, at which 204 papers were presented and published.

While the deadline for paper abstracts has passed, anyone thinking about submitting an abstract for STESSA is encouraged to do so now or to get in contact with the secretariat to ask for an extension.

As the leading international conference on this topic, a range of sponsorship packages are available. These can be tailored to suit your marketing requirements, enabling you to showcase your company to key audiences through the STESSA website, targeted promotions and communications around the conference.

STESSA '18 will bring together academics, researchers and engineers from around the world to discuss the latest international developments related to the behaviour of steel structures in seismic areas. A field trip will showcase the post-earthquake reconstruction in Christchurch where more than 90% of the new multi-storey buildings are supported by steel/concrete composite systems.

Keynote speakers for 2018 have been confirmed as:

- Professor Steve Mahin, University of California Berkeley
- Professor Guo-Qiang Li, Tongji University
- Professor Charles Clifton, University of Auckland
- Mr Stephen Hogg, Aurecon Christchurch
- Professor Robert Tremblay, Ecole Polytechnique of Montreal
- Raffaele Landolfo, University of Naples "Federico II" Naples
- Professor Toru Takeuchi, Tokyo Institute of Technology.

Please contact Kevin Cowie, Senior Structural Engineer - Technical Development (email: kevin.cowie@scnz.org or phone: 09 262 6685) for further details of sponsorship packages.

Further information on STESSA '18 can be found [here](#).

SPAM SCNZ EMAIL WARNING

It has come to our attention that SCNZ has become the victim of identity theft.

Spammers have created an email address using the SCNZ name and are sending out emails which at first glance appear to be from SCNZ.

However, the email address these communications are coming from is very clearly not an SCNZ one. All genuine SCNZ emails end with @scnz.org.



Please be extra vigilant when receiving emails from us which contain links or attachments:

- Check the address that the email has come from
- If you do receive anything suspicious, contact Rebecca Symonds, Marketing Administrator (email: rebecca.symonds@scnz.org or phone: 09 263 5638) to confirm that the email is from us before opening any links or attachments.

STAY SAFE, BE VIGILANT!

SPREADING THE WORD: NEW MATERIALS & SCNZ IN THE NEWS

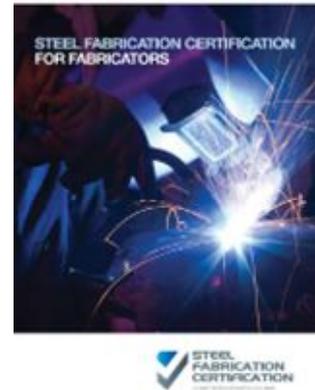
As announced at the recent Fabricators Forums, SCNZ has released a new brochure about the Steel Fabrication Certification (SFC) scheme aimed at specifiers. [SFC For Fabricators](#) outlines the benefits of the SFC scheme, how the scheme works in practice and the steps to certification.

A second new brochure - [SFC for NZ Specifiers](#) – promotes the benefits of the scheme to specifiers and procurers, and signposts to the [SFC website](#) for further details.

We have also made available a new fact sheet on [Structural Steel Product Standards 2016](#), which outlines the key changes to the suite of AS/NZS Structural Steel Product Standards (AS/NZS 1163, 3678, 3679.1-2) and the likely timeframe for the supply of all steel products to the latest revisions.

All these materials, together with a new flyer about SCNZ, can be downloaded [here](#).

SCNZ featured in The National Business Review's Special Report: Spotlight On Canterbury, at the end of April. You can read about the important role structural steel is playing in Christchurch's "architectural rejuvenation" [here](#) and about how structural steel is dominating the rebuild [here](#).



SCNZ AT NASCC: THE STEEL CONFERENCE

In March, SCNZ's Darren O'Riley (Manager), Zahid Hamid (Structural Engineer) and Bob Hawley (Chairman) represented the NZ steel industry at the [2017 NASCC: The Steel Conference](#) in San Antonio, Texas, USA.



Organised by the American Institute of Steel Construction (AISC), The Steel Conference is the place for engineers, fabricators, detailers and erectors to learn about structural steel design and construction, interact with their peers and see the latest products for steel buildings and bridges.

NASCC offers more than 100 technical sessions on the latest design concepts and construction techniques, an extensive trade show (featuring products ranging from structural software to machinery for cutting steel beams) and plentiful networking opportunities.



(L-R) Zahid Hamid, SCNZ Structural Engineer; Darren O'Riley, SCNZ Manager; Bob Hawley, SCNZ Chairman; and Alistair Varcoe, Red Steel Workshop Manager at NASCC: The Steel Conference

Darren O'Riley commented: "During the conference we took the opportunity to exchange ideas with event organisers, AISC, on how to promote the use of steel in commercial buildings, which proved a fruitful encounter.

"As well as being an excellent networking opportunity, this conference provided a stimulating environment for the global exchange of the latest research, results and practical experience in structural steel design and construction."

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

SPECIAL OFFER FROM LEADING WORKPLACE HEALTH PROVIDER

Leading Australasian wellness provider, [Vitality Works](#), has made SCNZ members a nationwide offer for pre-employment and staff medical checks.

Vitality Works is passionate about developing healthier workforces. Health monitoring and health checks support your business by establishing baseline data and metrics.



The company's services include:

- Pre-employment screening – ensuring the candidate is fit for the role and noting previous risk that can be attached to the business
- Health checks – one-on-one assessment with consultant, instant results, coaching and recommendations
- Reducing workplace injuries and ACC liability/claims
- Assisting clients to meet legislation requirements (health monitoring)
- "Vital Insight" - stores all your health data for the required 30-40 years under the new Worksafe legislation.

With 15 years of experience, and over 1000 clients, Vitality Works has deep industry expertise delivering effective programs to almost 1,000,000 employees.

Darren O’Riley, SCNZ Manager, comments: “We are pleased to make this offer available to our members as Vitality Works comes highly recommended. Although there is no obligation to use this company if you are satisfied with your current provider, if you are dissatisfied or if you are not already undertaking pre-employment and staff medical checks, this may be something you want to consider.”

For more information about this offer please click [here](#).

NEW SFC CERTIFIED FABRICATORS

Congratulations to the following companies who have achieved their Steel Fabricator Certification:

Bedford Engineering, Hamilton
Fitzroy Engineering Group, New Plymouth
SNC Steel, Takanini

NEW SCNZ MEMBERS

SCNZ welcomed six new members during the third quarter ending March 2017.

Professional (Engineer)

Northern Consulting Engineers, Tauranga
Tangent Consulting Ltd, Hastings
Bonacci, Sydney
Milmeq, Dunedin
Robert Bird Group, Auckland

Associate (Erector)

Industrial Site Services, Hamilton

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