

STEEL FUTURES

➔ MARCH 2018

SIGNIFICANT NUMBER OF NZ FABRICATORS COMMIT TO GAINING SFC CERTIFICATION IN 2018

"A belated happy new year to all our members. With many exciting projects in the pipeline, 2018 promises to be yet another busy year for SCNZ and the Building and Construction Industry.

"With the new year comes a renewed focus on the future and in particular on the [Steel Fabricator Certification \(SFC\) Scheme](#).

"Over a third of our fabricators are now certified, representing approximately 80% of industry volume, and several engineering practices are specifying SFC as a requirement.

"Thanks to the 17 or so additional fabricators who have committed to gaining SFC in 2018 as per the letter sent by SCNZ in December. We will shortly be contacting those concerned to confirm dates, and although we are trying to accommodate everyone on their preferred times and dates, we will have to make some adjustments. However, this should still be within the next 12 months.

"For those we have not yet heard from, we are assuming you are planning to implement SFC but please remember that the deadline is the **end of 2020** and that HERA Certification will not be able to certify large numbers in the last stage of the three-year period. So, if fabricators leave it too late to start the process, they run the risk of missing the deadline.

"Please remember you can apply to be certified to the less demanding Construction Category 2 (CC2) of AS/NZS 5131 which is reflective of the work on smaller non-critical projects; and that AS/NZ 5131 is likely to be cited in the first six months of 2018."

We will repeat this exercise to book implementation dates for 2019 and 2020 later this year.

Contact us now to have an informal discussion about becoming certified.

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



Darren O'Riley
SCNZ Manager

"Strengthening Kiwi. Steeling the Future"

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NEW NZ SPECIFICATION FOR DURABILITY OF STEEL STRUCTURES

A new technical specification has been released by Standards NZ, which sets out the requirements that are necessary to provide the required level of durability to steel structures and their component parts.



SCNZ's Zahid Hamid, Structural Engineer, sat on the committee that prepared the new [SNZ TS 3404 Durability requirements for steel structures and components](#), which covers the corrosion protection of structural steelwork exposed to New Zealand atmospheric and non-atmospheric environments.

Asset owners, engineers, architects, contractors, specifiers of corrosion protection systems, and the surface coating industry can use this technical specification, which provides an advanced framework for specifying the durability requirements for steel structures and components, and will enable durability requirements to be met without over-specification or under-specification of coating systems.

SNZ TS 3404 *Durability requirements for steel structures and components* updates the information contained in section 5 of NZS 3404:1:2009 and is republished as a standalone technical specification.

It is a simplification of the design procedure for durability determination given in Heavy Engineering and Research Association Report R4-133:2011 *New Zealand Steelwork Corrosion and Coatings Guide*.

The specification has been written to ensure that structural steelwork is sufficiently durable to satisfy the requirements of the New Zealand Building Code Clause B2, the New Zealand Transport Agency (NZTA) *Bridge manual*, and the NZTA *Protective coatings for steel bridges*; as well as remain compatible with NZS 3404 Parts 1 and 2:1997. It should be used in conjunction with AS/NZS 2312:1:2014 and AS/NZS 2312:2:2014.

As the fabrication and erection provisions of NZS 3404 are in the process of being superseded by AS/NZS 5131 and AS/NZS 5100.6, SNZ TS 3404 is also written to be compatible with those documents.

SNZ TS 3404 supersedes in part NZS 3404:1:2009, specifically section 5 on corrosion protection.

For more information about this new technical specification or to purchase a copy please click [here](#).

MARCH REGIONAL FABRICATOR FORUMS

SCNZ is pleased to announce that the first series of [Regional Fabricator Forums](#) for 2018 will take place in March.

The dates and venues are:

- **Southern Chapter Forum** – 8 March, Chateau on the Park, Christchurch
- **Central Chapter Forum** – 15 March, Red Steel, Napier
- **Northern Chapter Forum** – 22 March, Claudelands, Hamilton

REGIONAL
FABRICATOR
FORUM

NORTHERN

CENTRAL

SOUTHERN

The agenda for each Forum will include a Round Table discussion on current industry issues, concerns and successes; a material compliance update from Alistair Fussell from Tangent Consulting; and a Fastening Project update from SCNZ's Kevin Cowie.

Darren O'Riley, SCNZ Manager, will provide a heads up on key SCNZ projects and events to look out for in 2018 (including a Production Managers' Forum).

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

2018 EXCELLENCE IN STEEL AWARDS – OPEN FOR ENTRY

The annual [Excellence in Steel Awards](#), administered by SCNZ, are now open for entries but don't leave it until the last minute!



As we announced before Christmas, the Excellence in Steel Construction Awards will now be made every year and the 2018 Awards feature an updated format, revised categories and exciting new opportunities.

The new format is designed to allow easier initial entry without lowering standards. The first phase of entry should not take longer than 30 minutes to complete as it just requires a brief overview of the project, drawings and photos.

The objective is to celebrate New Zealand's excellence in the field of steel construction by identifying projects that demonstrate efficiency, cost effectiveness, application of sustainability principles, aesthetics, best practice, outstanding teamwork, great safety management, and innovation.

Previous winners of these prestigious awards include PFS Engineering for the iconic Canada Street Bridge and Jensen Steel for the impressive Avantidrome 'Home of Cycling'.



*Excellence in Steel Awards 2017 Supreme Overall Winner:
Canada Street Bridge, PFS Engineering*

Preliminary judging on the initial entries submitted by 1 July 2018 will select finalists for each category. Each finalist will then be asked to submit further information.

The Awards will be presented at the SCNZ Gala Dinner at Steel Agenda AGM and Conference to be held in Rotorua on 28 September. In addition to each category winner and the overall supreme winner, each finalist will be acknowledged at the presentation and will receive an award, plus complimentary tickets to the Gala Dinner. We encourage you to invite as many of the project team as possible as all finalists will be invited onstage to receive awards.

The SCNZ 2018 Awards for Excellence in Steel are rewardingly hard to win but quick and easy to enter. What are you waiting for?

Click [here](#) for more information (including the low-down on the brand new "stand-alone residential home category") and to submit your preliminary entry.

SEARCH BEGINS FOR THE 2018 SCNZ APPRENTICE OF THE YEAR



Have you got what it takes to be the [2018 SCNZ Apprentice of the Year](#); or do you know someone who has?

We are proud to announce that the 2018 SCNZ Apprentice of the Year Award, in association with award sponsor Weldwell and industry training partner Competenz, is now open for entries.

The initial entry process has been changed to make it easier, less complex and much quicker. A significant change is that your business (not the apprentice themselves) must now make the nomination, assuming the apprentice is willing.

The award celebrates excellence amongst apprentice fabricators and casts a spotlight on careers in the structural steel industry. It acknowledges people whose skills, drive, and willingness to learn and work hard has helped them to achieve outstanding outcomes.

Simon Jackson of MJH Engineering took out the second Apprentice of the Year Award, which was announced during a gala dinner following SCNZ's Steel Agenda (AGM and Conference) in September 2017.

"We are very excited about this search and would like to thank Weldwell for sponsoring this Award for a third year," says SCNZ Manager Darren O'Riley. "This award is well worth entering, not only because of the trophy and \$1,000 in prize money, but it provides the opportunity to pit yourself against your peers and gain recognition for your skills and commitment."

Entries for the SCNZ Apprentice of the Year Award must be submitted by 6 July 2018 and the winner will be presented with a trophy and \$1000 in prize money also at the SCNZ Gala Dinner at Steel Agenda AGM and Conference to be held in Rotorua on 28 September.

The four-member 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, is available [here](#).

KNOW THE FACTS - AS/NZS 5131:2016

As part of our mission to advance the interests of New Zealand's structural steel industry through technical expertise, SCNZ has produced a new fact sheet for 2018 – [AS/NZS 5131:2016 Fabrication and Erection of Steel Structures Standard](#).

This fact sheet is designed to give an overview of the key elements of the new Fabrication and Erection of Steel Structures Standard, how it will be implemented and how it links with the Steel Fabricator Certification (SFC) scheme.

How to get your copy:

- All members who receive our newsletter will get a hard copy in the post
- Fabricators who attend one of the SCNZ Fabricator Forum in March will receive several hard copies to distribute to their clients
- SCNZ will distribute copies during forthcoming Engineer and Specifier visits.

[Download](#) your copy of our new factsheet today.



AS/NZS 5131:2016
SCNZ Fact Sheet

INTERNATIONAL CONFERENCE IN SEISMIC DESIGN HAILED A MAJOR SUCCESS

The ninth triennial [STESSA '18](#) Conference on the Behaviour of Steel Structures in Seismic Areas was hosted by the University of Canterbury on 14-17 February 2018, with partners SCNZ, the University of Naples and the University of Auckland.

The event successfully attracted the top tier of specialists from around the world who are working in steel and structures; and inspired local as well as international participants.

Approximately 150 delegates from across 20 countries descended on the Garden City to gain exposure to the latest research and seismic applications, just one week ahead of the seven-year anniversary of the February 22 earthquake that shook Christchurch in 2011.



The STESSA '18 delegation

A total of 118 papers authored by local and international structural engineering experts in seismic design and performance were presented and several keynote presentations focussed on learnings from the performance of structures following the Canterbury earthquakes. In addition, SCNZ's Senior Structural Engineer (Technical Development), Kevin Cowie, chaired a special session on BRBs.

To cover the diverse range of papers from around the world, three streams were run simultaneously on topics from performance-based design through to behaviour of connections, numerical modelling, passive control, and more.

Professor Greg MacRae, University of Canterbury, discussed how Christchurch is becoming a blueprint for seismically resilient construction following the 2011 earthquake.

He commented, "STESSA '18 successfully showcased NZ designs and construction. The research that was presented inspired practical discussions, enabled valuable information to be shared and facilitated the development of important connections amongst specialists; all of which will help us as we seek to make better seismic systems made of steel in New Zealand."

SCNZ Manager Darren O'Riley said the conference provided a valuable opportunity for structural engineering academics and practitioners to present and assess the results from recent research on seismic retrofit, the minimisation of earthquake damage and the collapse behaviour of steel structures.

Darren commented: "Structural steel's seismic-resisting qualities have allowed a new Christchurch to emerge from the devastating earthquake of 2011. Due to structural steel's proven seismic performance, its market share is currently over 80 percent in Christchurch, up from virtually nil before the earthquakes.



Gala Dinner attendees with the Maori Performance Group in the Transitional Cathedral

"It is vital that we learn from the Christchurch experience and share our insights with other similarly developed cities worldwide."

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

WELDING SUPERVISORS COURSE – REGISTER NOW

Are you welding and fabricating to standards such as AS/NZS 1554 and AS/NZS 5131?

Are you running or developing a quality management system to the Steel Fabricator Certification (SFC) scheme?

HERA's Welding Supervisors Course provides the necessary understanding of these key standards and of how their requirements can be managed in the SFC scheme.

Welding Supervisor Course graduates can:

- ✓ Qualify to AS 2213 certification of welding supervisors – Structural steel welding
- ✓ Play a key role in a fabricator's quality management system
- ✓ Improve profitability by optimising welding techniques, processes and equipment
- ✓ Perform in-house welding and fabrication inspection
- ✓ Manage welder qualification; issue and prolong welder qualification test certificates
- ✓ Liaise with designers, project managers, and customers
- ✓ Develop and qualify welding procedures.



Course Dates 2018

Welding Supervisor/Welding Inspection Part 1:

- 5-9 March (Auckland)
- 19-23 March (Christchurch)

For more information and to register visit the [HERA](#) website or call 09 262 2885.

2018 CALENDAR OF KEY DATES

MARCH

- 8th Southern Fabricator Forum, Chateau on the Park
- 15th SCNZ Executive Meeting
- 15th Central Fabricator Forum, Red Steel
- 22nd Northern Fabricator Forum, Claudelands

JULY

- 1st Closing date for Excellence in Steel preliminary entries
- 6th Closing date for Apprentice of the Year Award entries
- 31st Finalists of Excellence in Steel Awards notified and invited to provide further information for the next stage of judging

AUGUST

- 6th (w/c) Finalists of Apprentice of the Year Award notified and interviews / practical skills exercise arranged
- Aug Apprentice of the Year face-to-face interviews and practical testing conducted

SEPTEMBER

- 28th Steel Agenda AGM and Conference, Millennium Hotel, Rotorua
- SCNZ Awards Gala Dinner, Apprentice of the Year and Excellence in Steel Award winners announced, Blue Baths, Rotorua