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### **ENVISIONING THE FUTURE: 2017 SCNZ STRATEGIC PLAN**

“A belated happy New Year to all our members. With many exciting projects in the pipeline, 2017 promises to be a busy year for SCNZ and the Building and Construction Industry.

"With the new year comes a renewed focus on the future and I am working closely with the SCNZ Executive and the Auckland team to develop a five-year strategic plan. This 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.

"The first step in this process is to appoint a facilitator to assist with reviewing and updating our five-year vision and mission. To this end, I will be working with a sub-committee of the SCNZ Executive to review proposals from facilitators during February, with the successful party then conducting a strategic day workshop with industry representatives.

"I am looking forward to meeting and/or talking to the vast majority of you over the coming months; and to hearing your thoughts on how we can work together towards our common goals."



*Darren O'Riley*

**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](mailto:darren.o'riley@scnz.org).**

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## **NEW HIGH STRENGTH BOLTING STANDARD, AS/NZS 1252.1:2016 AND AS/NZS 1252.2:2016 PUBLISHED**

The new revised High Strength Bolting Standard was released on 23 December 2016.

Developed by a joint Australian and New Zealand technical committee, the Standard is now in two parts:

- AS/NZS 1252.1:2016 High strength steel fastener assemblies for structural engineering – Bolts, nuts and washers. Part 1: Technical requirements.

The main technical changes incorporated in the new Part 1 relate to updated testing and conformity requirements, and the inclusion of a specific nominated European Fastener Standard as a 'deemed to satisfy' alternative product as well as an additional assembly type. These changes are designed to improve procurement outcomes in the New Zealand marketplace.

- AS/NZS 1252.1:2016 High strength steel fastener assemblies for structural engineering – Bolts, nuts and washers. Part 2 – Verification testing for bolt assemblies.

This companion Standard to Part 1 gives provisions for the verification testing of high-strength steel bolt assemblies for structural engineering for suppliers, specifiers and third-party certification bodies; to instil confidence in the product's conformity with the requirements of Part 1.

**SCNZ is seeking industry feedback to develop a co-ordinated transition to the revised AS/NZS 1252-2016.** A brief summary paper has been prepared to inform on the suitability and timeframe for the adoption of the new Standard, which is available [here](#).

A more extensive paper describing the changes in AS/NZS 1252-2016 is in development and will be presented as part of the SCNZ Steel Structures Seminar Series in May (see “[New SCNZ Seminar Series: Essential Updates for Structural Engineers](#)” for more information).

**Please send your feedback to Kevin Cowie, Senior Structural Engineer - Technical Development (email: [kevin.cowie@scnz.org](mailto:kevin.cowie@scnz.org) or phone: 09 262 6685).**

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## **SCNZ PAYS TRIBUTE TO INDUSTRY ICON NICK CALAVRIAS**

Nick Calavrias, the former Chief Executive of Wellington company Steel & Tube Holdings Ltd, tragically died on Saturday 7 January in Taupo.

Nick, 67, founded Wellington Steel Ltd with two partners in 1976, and grew the business to employ more than 100 people. In 1990, his company - by then called Acorn Pacific – was bought out by Steel & Tube.

In the following year, Nick took over as Chief Executive of the Steel & Tube group. During his 18-year tenure, he contributed to keeping thousands of New Zealanders employed by sourcing locally made products over cheaper industry alternatives.

He will be best remembered for his determination in pushing through safety-improvement programmes that have made a long-term impact on New Zealand’s steel industry.



*Nick Calavrias*

When he retired from Steel & Tube in 2009, he said he would have more time to improve his flying skills and bought a Cessna 172 light aircraft.

Nick was made an Officer of the New Zealand Order of Merit in the New Year honours for services to business in 2010, in recognition of his dedication to our industry and the people in it.

HERA presented Nick with the prestigious Keith Smith Memorial Award for Distinguished Service in 2011, acknowledging his countless contributions to the New Zealand metals industry.

Nick was also a leader of Wellington’s Greek community and organised a reunion for Greeks who moved to New Zealand as displaced people in 1951 – no doubt inspired by his own

experiences.

He had homes in Taupo and on the Kapiti Coast and loved boating, fishing, scuba diving, flying, golf and cycling.

**Nick was known as a giant of the New Zealand steel industry, a loving family man, and a keen negotiator with strategic insight and compassion for fellow human beings. He touched the lives of many and will be sorely missed.**

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## **ADOPTION OF 2016 STRUCTURAL STEEL PRODUCT STANDARDS**

In April 2016, the suite of AS/NZS Structural Steel Product Standards (AS/NZS 1163, 3678, 3679.1-2) (SA/NZS, 2016) was revised and republished.

Unfortunately, there is no recognised process in New Zealand for ensuring an orderly adoption of new Structural Steel Product Standards. In particular, steel mills need time to make changes to their production processes and embed them, as do steel importers who need to destock product manufactured to the previous editions of the Standards.

To help facilitate an orderly transition to the new Standards, SCNZ is undertaking the following activities:

- Engaging with steel importers to ascertain the timeline for full supply of structural steel products to the latest revisions
- Communicating the timeline for adoption to key stakeholders (i.e. engineers)
- Preparing a technical article which will discuss the basis for, and implications of, the key changes to the 2016 Structural Steel Product Standards.

More information on the implications of these changes and the timeline for adoption of the new Standards will be available from SCNZ shortly.

**In the meantime, if you have any questions related to the transition to the new Standards, please contact Kevin Cowie, Senior Structural Engineer - Technical Development (email: [kevin.cowie@scnz.org](mailto:kevin.cowie@scnz.org) or phone: 09 262 6685).**

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## **GROWING AND EXTENDING THE STEEL FABRICATION CERTIFICATION (SFC) SCHEME**

Currently the focus of our work around the Steel Fabrication Certification (SFC) scheme is on growing the number of certified fabricators, and on increasing the specification of SFC certified fabricators for building and infrastructure projects.

A total of 24 companies have now obtained SFC certification and several more are preparing for the independent audit. Over the next four months, Darren O'Riley, SCNZ Manager, and Michail Karpenko, HERA, will visit most of the remaining fabricators who have yet to start the process, to address any questions or concerns.

### **SFC Working Group**

The next SFC working group meeting is planned for 29 March. Some of the key agenda items include aligning the SFC scheme audit requirements with the new Fabrication and Erection Standard AS/NZS 5131, and also extending the scope of the scheme to include erection. Key outcomes of this meeting will be communicated to SCNZ members in due course.

### **Promotion & Education Initiatives**

We are seeing greater widespread interest in the SFC scheme in the marketplace. To further promote the scheme to engineers, builders and specifiers, we are developing a brochure which will be available shortly. This will be specifically designed for those who have gained SFC certification to use, to help spread awareness about the scheme and its benefits.

SCNZ will also be undertaking a series of builder and engineer SFC presentations throughout 2017 to educate these key stakeholders about the benefits of specifying and using SFC certified fabricators. In addition, the SCNZ [Steel Structures Seminar Series](#) in May (see “[New SCNZ Seminar Series: Essential Updates for Structural Engineers](#)”) will cover the SFC scheme.

Finally, SCNZ is releasing 15 welding supervisor scholarships (see “[SCNZ Launches Training Scholarship To Help Companies Achieve SCNZ Certification](#)” for more information).

Please do not hesitate to have an informal discussion with us about becoming certified. **For more information on the SFC scheme, 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).**

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## **SCNZ LAUNCHES TRAINING SCHOLARSHIP TO HELP COMPANIES ACHIEVE SFC CERTIFICATION**

SCNZ is making 15 training scholarships available for companies who apply to become SFC certified before the end of June.

As we reported in our October newsletter, SCNZ members voted unanimously at the September AGM to introduce a resolution that all Steel Constructor members must 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 making 15 training scholarships for these courses available 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 are available on a first come, first served basis; 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 have received a lot of very positive feedback on the SFC scheme and are proud that we have implemented such a positive scheme to bolster the quality assurance of locally fabricated steel. This introduction of a training scholarship demonstrates our commitment to supporting our Steel Constructor members, expanding the SFC scheme and raising industry standards.”

**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](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).**

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## **NEW SCNZ SEMINAR SERIES: ESSENTIAL UPDATES FOR STRUCTURAL ENGINEERS**

Planning is well underway for SCNZ’s 2017 [Steel Structures Seminar Series](#), which will be packed full of important structural steel design, standards and construction updates.

The three 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 Wellington  
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.

The seminar series will be of particular importance for engineers as it will provide best-practice

insights into designing and specifying bolted connections, and outline the latest research into stability design of gusset plates for seismic frames.

The full programme and details on how to register will be available shortly [here](#) and on the free [SCNZ mobile app](#).

In the meantime, please contact Kevin Cowie, Senior Structural Engineer - Technical Development (email: [kevin.cowie@scnz.org](mailto:kevin.cowie@scnz.org) or phone: 09 262 6685).

## SCNZ AT THE 16th WORLD CONFERENCE ON EARTHQUAKE ENGINEERING

In January, SCNZ's Kevin Cowie (Senior Structural Engineer – Technical Development) attended the 16th [World Conference on Earthquake Engineering \(WCEE\)](#) in Santiago, Chile.

Organised by the International Association of Earthquake Engineering, the conference had over 4000 participants and covered areas like engineering seismology, design of new structures and new urban risk assessment.

New Zealand made a significant contribution to the conference, with Phd candidate, Behnam Zaboli, presenting SCNZ-sponsored University of Auckland research into gusset plate stability.



### 16th. World Conference on Earthquake Engineering

A simplified notional load yield line model is proposed to provide the gusset plate stability of both conventional braces and buckling restrained braces (BRBs), which can be used by structural engineers tasked with the overall design of a steel frame structure incorporating these systems to prevent premature failure of the brace connections.

The research was well received and feedback will be incorporated into a paper presented at the New Zealand Society of Earthquake Engineering Conference in April.



*WCEE BRB International Collaboration Meeting (photo taken by Kevin Cowie, SCNZ Senior Engineer)*

New research funded by the HERA Research Panel on stiffeners ('Cyclic Performance of Eccentrically Braced Frame Shear Links with Contact Stiffeners') was also presented, which will result in recommended changes for stiffeners requirements for active links for eccentrically braced frames.

Almost a full day was given to a Special Session on "State-of-the-Art Design of Buckling Restrained Braces (BRBs) and Cutting-Edge Research", during which a number of papers were presented. Both the University of Canterbury and the University of Auckland participated heavily, and Kevin Cowie chaired a meeting to identify areas for research and international collaboration on BRBs.

Kevin Cowie commented: "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 earthquake engineering, helping us to work together towards reducing the risk from earthquakes."

For more information, please click [here](#) or contact Kevin Cowie, Senior Structural Engineer - Technical Development (email: [kevin.cowie@scnz.org](mailto:kevin.cowie@scnz.org) or phone: 09 262 6685).

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## REGIONAL FABRICATOR FORUMS PUT THE SPOTLIGHT ON AS/NZS 5131

SCNZ is pleased to announce another round of its successful [Regional Fabricator Forums](#), which will take place in April. These will each be extended to include a workshop for production personnel, as part of our initiative to prepare industry for important changes relating to the introduction of AS/NZS 5131.

**Northern Chapter Forum - 5 April**  
(HERA House, Manukau)

**Central Chapter Forum - 6 April**  
(Copthorne Palmerston)

**Southern Chapter Forum - 20 April**  
(Trevinos, Christchurch)



### Fabricator Regional Forum AS/NZ 5131 Workshop (2.30pm – 4pm)

The first part of each Forum will consist of a workshop providing an overview of the key elements of AS/NZS 5131.

This workshop is a must for key production personnel, including:

- project managers
- welding and fabrication supervisors
- Quality Assurance personnel.

The recent publishing of AS/NZS 5131 represents a significant milestone towards the goal of creating a level compliance playing field for fabrication companies. Once cited in the Building Code this standard, which forms the standards basis for the SFC scheme, will define the minimum requirements for the fabrication and erection of structural steel building and infrastructure projects in New Zealand.

Some of the key elements in this standard include a risk-based approach to specifying requirements and comprehensive conformity assessment requirements (i.e. what the fabricator is required to do to demonstrate their work is to the required standard).

Attendees will learn about the key requirements of AS/NZS 5131 and implications for fabricators and erectors; the relationship of the standard to the Steel Fabrication Certification (SFC) scheme; SCNZ's initiatives to prepare industry and design professionals for its introduction; and the timeline for adoption.

### **Fabricator Regional Forum (4pm – 7pm)**

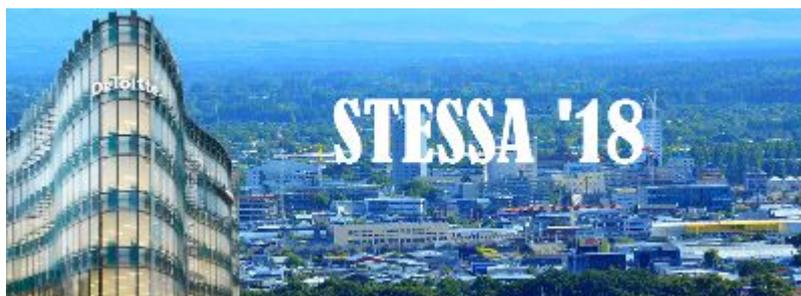
The second part of each Forum is business as usual, with a round table discussion on current industry issues; quick updates; industry speakers sharing expertise on relevant issues; and an opportunity to network with industry peers.

**To register for your local event, please contact Rebecca Symonds, Administration and Marketing Officer (email: [rebecca.symonds@scnz.org](mailto:rebecca.symonds@scnz.org) or phone: 09 262 6682).**

**Please download the [SCNZ Mobile App](#) for ongoing updated Forum minutes, details and information.**

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## **STESSA '18 – UPCOMING PAPER SUBMISSION DEADLINE**



The ninth STESSA Conference, sponsored by SCNZ, will be held on 14-17 February 2018 at the University of Canterbury, Christchurch. All paper abstract submissions for [STESSA '18](#) must be made by the **30 March 2017**.

STESSA is the international speciality conference focussed on the seismic design of steel structures.

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.

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.

About 300 delegates from 25 countries participated in the STESSA '15 conference. In all, 204 papers were presented and published as part of the conference proceedings.

**More about STESSA '18 and information on how to submit paper abstracts electronically can be found [here](#).**

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## **FABRICATORS ASKED TO SHARE INFORMATION FOR INDUSTRY SNAPSHOT**

As part of our drive to boost market confidence, we are once again about to ask our fabricator members to complete an online industry capacity survey.



The results of the two previous surveys provided the basis for SCNZ's **Structural Steel Industry Snapshots**, which successfully highlighted significant spare industry capacity, enabling our stakeholders to make informed decisions.

With the construction sector experiencing a continued boom in construction activity, it is vital that this half-yearly report contains solid data in order for it to fulfil its role as a key component of SCNZ's drive to convince the market that our industry has the capacity to satisfy demand.

We are asking our fabricator members to support this initiative by completing a quick online survey accurately and on time, to enable us to feed the results back to you at the Regional Fabricator Forums in April.

Confidentiality will be respected for any commercially sensitive information supplied to SCNZ. **Please keep an eye out for the survey landing in your inbox (check your junk folder if you do not receive it) and return it by 20 March 2017.**

**For further information, please contact Darren O'Riley, SCNZ Manager (email: [darren.o'riley@scnz.org](mailto:darren.o'riley@scnz.org) or phone: 09 262 6684).**

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## WOMEN IN ENGINEERING LEADERSHIP SUMMIT 2017

The fourth Women in Engineering Leadership Summit will take place on the 15 and 16 March at the Grand Millennium Hotel in Auckland.

Engineers are faced with a considerable task – to design, develop and build the future of our world. Work can be fast-paced, competitive and to excel as a leader you must find the inspiration within to charge ahead and overcome obstacles. But how do you ignite that inner inspiration, and how do you unleash the innovation that will carry your organisation and your career into the future?



Liquid Learning's 4th Annual Women in Engineering Leadership Summit has been designed to help women working in the industry discover tactics and tools to tackle engineering leadership with confidence and courage.

With insights and advice from some of New Zealand's most influential and inspirational engineering leaders, the program will inspire you and enable you to design the best plan to really launch your leadership journey.

SCNZ members receive a 10% discount!

Online brochure and tickets are available [here](#).