

STEEL FUTURES



Latest Industry & SCNZ News

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STEEL AGENDA ON THE HORIZON

We are pleased to present the SCNZ Steel Agenda AGM & Conference 2016, which will be held at The Old Church in Napier on Friday 16 September.

This year's Steel Agenda event will form part of our 10th anniversary celebrations and promises a day to remember with a mixture of forums, SCNZ AGM, gala dinner and our inaugural Apprentice of the Year presentation.



Open to all, our event will combine informative and inspirational speakers with social activities in the beautiful Art Deco capital of Napier.

The social programme kicks off on the evening of Thursday 15 September, when early arrivals are welcome to join the Council for casual drinks in Napier.

On Friday morning, delegates have the opportunity to visit the local Weldwell Factory to get a unique insight into the work of New Zealand's only manufacturer of Arc Welding Electrode, which has a 60 year history of providing innovative welding products and solutions to industries throughout New Zealand, Australasia and the South Pacific.

After lunch, the first part of the afternoon conference session offers the choice of either a Fabricator Forum or a Distributor Forum (all non-fabricator and non-distributor members are free to attend either), followed by the SCNZ Annual General Meeting.

The second part of the afternoon session will bring everyone together for a General Member Forum and SFC presentation. Speakers confirmed to date include:

- **Rob Penney, Southern QA Ltd** – observations on managing the quality of fabricated structural steelwork in low cost countries
- **Sam Hazeldine, Ernst & Young (Young Entrepreneur of the Year)** – “Anything’s Possible”
- **Mayor of Hastings, Lawrence Yule** - Mayor of Hastings since 2001, Lawrence Yule is Hastings’s youngest ever Mayor and was recently made a Fellow of IPENZ.

The day will conclude with a gala dinner in the evening and the presentation of the inaugural Apprentice of the Year Award. **Jamie Fitzgerald** (world-class adventurer and leadership development consultant) will deliver an inspirational after-dinner speech.

The social side will stretch into the weekend as delegates have the opportunity to take part in a winery tour on Saturday morning.



Scenic Hotel Te Pania, Napier

Delegates will stay at the Scenic Hotel Te Pania (Marine Parade), which boasts a remarkable location on the edge of Hawke's Bay, and everyone is encouraged to bring along partners and families in order to take the opportunity to extend the stay in “wine country” into a weekend break.

We look forward to welcoming you to Napier in September.
Alistair Fussell, SCNZ Manager

Further information is available [here](#). Watch this space for upcoming registration details to take advantage of our early bird offer!

Details are also available on the **NEW** SCNZ mobile app. To download the app, go to the App store on your mobile device. Search for ‘SCNZ’ and download the ‘SCNZ Mobile App’.



LAST CALL FOR ENTRIES - SCNZ APPRENTICE OF THE YEAR

Entries for our new industry award, the SCNZ Apprentice of the Year, must be submitted by **30 June 2016**.



The SCNZ Apprentice of the Year Award, in association with Weldwell, acknowledges people whose skills, drive, and willingness to learn and work hard 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.

The judging panel will be comprised of a fabricator and one representative from each of the following: award sponsor Weldwell, our industry training partner Competenz and the Heavy Engineering Research Association NZ Welding Centre.

The winner will be presented with a trophy and \$1000 in prize money at the Steel Agenda AGM and Conference in September.

So if you know someone with the potential to be the SCNZ Apprentice of the Year, don't delay, encourage them to enter today!

More information on our new award, including details on how to enter, are available [here](#). Alternatively please contact Chris Burns, Senior Structural Engineer – Industry (email: chris.burns@scnz.org or phone: 09 262 6684).

CASE STUDY: UNIVERSITY OF AUCKLAND SCIENCE TOWER

SCNZ has published a new case study, illustrating the integral role that structural steel is playing in the Christchurch rebuild; creating a distinctive landscape which will stand the test of time.

In 2010 the University of Auckland embarked on a five-year project to upgrade its Faculty of Science buildings. The \$290 million redevelopment consisted of the refurbishment and seismic strengthening of two existing buildings, construction of a new link structure, and demolition of two buildings to make way for the new Science Centre Tower.

The result: a state-of-the-art research and teaching facility, and a new entranceway to the University.

The existing three-storey south podium Chemistry building on the corner of Symonds and Wellesley streets was demolished and a new 13-storey tower erected using the original structure's column grid and foundations. The new 23,500m² building, coupled with the revamp of the adjacent tower building, brings the total floor area to almost 38,000m².

The Science Tower is one of the first buildings in New Zealand to be designed using BRBs, and the first to procure them from the USA. Structural engineering firm Beca undertook a significant pre-qualification process to provide assurance that what it was specifying could be built. As part of this exercise, Beca drew on the collective knowledge of six New Zealand fabricators relating to techniques such as welding, bolting and erection.



University of Auckland, Science Tower

Read the full case study [here](#).

WINTER REGIONAL FABRICATOR FORUMS

Don't forget that the SCNZ Fabricator Forums – covering the Central and Southern regions of the country - are coming up.

Our three Regional Fabricator Forums were established following consultation with members with the purpose of supporting the commercial needs and interests of SCNZ members specific to their region, and raising the general awareness and understanding of sound business practices.

Each Forum is run by local members and will discuss important commercial issues. These quarterly events are must-attend occasions for any fabricator serious about developing and growing their business.

The Northern Chapter Forum took place on 22 June at HERA House in Manukau (Auckland). The other two Forums are imminent:

Central Chapter Forum

5pm-7pm on Wednesday 29 June at the Coachman Hotel in Palmerston North.

Southern Chapter Forum

5pm-7pm on Wednesday 6 July at the City Park Hotel in Christchurch.



Full details are available on the **NEW** SCNZ mobile app. To download the app, go to the App store on your mobile device. Search for 'SCNZ' and download the 'SCNZ Mobile App'.

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

NZIQS EXPLORES BUILDING FOR THE FUTURE

In May, Senior Structural Engineer, Chris Burns, represented SCNZ at the NZIQS (New Zealand Institute of Quantity Surveyors) Conference, which took place in Christchurch and attracted around 400 delegates.



NZIQS Conference, 22-14 May

The theme for this year's conference was "Building for the Future – A Global Dilemma". The event explored the new and innovative building construction structures and techniques that are being used not only in Christchurch but world-wide as the increase in devastating world weather events causes the construction community to rethink the way buildings are constructed.

The Pacific Association of Quantity Surveyors (PAQS) Annual Committee and Board meetings were held in Christchurch just before the conference and the PAQS delegates then attended the conference, making it a unique opportunity to network with Quantity Surveyors from Australia, Canada, Japan, China, Hong Kong, Indonesia, Singapore, Philippines, Malaysia, Brunei, South Africa and Fiji.

Chris said "We attended the conference as an exhibitor but our presence there also demonstrated our support for the NZIQS and promoted SCNZ's role in providing guidance and advice to Qs in pricing steelwork accurately and efficiently.

"It was pleasing to note that structural steel was a hot topic at the conference and to hear the many success stories from Qs who have been working with steel as part of the rebuild."

Further information on the NZIQS Conference is available [here](#).

UPCOMING: DESIGN AND ANALYSIS OF WELDED CONNECTIONS SEMINAR

HERA, SCNZ and the Institute of Welding are pleased to announce a one day seminar on Design and Analysis of Welded Connections, which will be run throughout July and August in Hamilton, Auckland, Wellington, Christchurch and Queenstown.

This seminar provides an overview of the theory of design of welded steel structures and components, with plenty of hands-on guidance for structural and mechanical engineers. Delegates are encouraged to bring along their design problems to contribute to discussions and local case studies.

The morning session will be presented by Professor Adolf Hobbacher (University of Applied Sciences, Wilhelmshaven, Germany), one of the world's leading experts on weld design issues.

The afternoon session will be jointly presented by Professor Adolf Hobbacher, Dr Stephen Hicks (General Manager Structural Systems, HERA) and Dr Michail Karpenko (General Manager Welding Centre, HERA); and will cover reliability aspects of steel structures, weld quality issues and a fatigue design procedure of new bridge design standard AS/NZS 5100.6.

If you are a designer, structural engineer, consultancy engineer, mechanical engineer, maintenance or quality control engineer working in steel construction, design, fabrication or maintenance, make sure you do not miss this excellent professional development event!



Further details and registration information is available [here](#). A concessionary seminar fee is available for SCNZ members.

THE STORY BEHIND SCNZ

To mark SCNZ's 10th anniversary, we have delved into the archives and memories of the people who have played fundamental roles in our development and continued success, to piece together the inspiring story behind SCNZ.

The story traces the organisation's roots back to the 1970s, with the black shell of the unfinished 30-storey BNZ building in Wellington forming a visible demonstration of the disastrous industrial relations of the time. The 1980s saw the dawn of HERA and the development of positive messages about the role of steel structures in New Zealand multi-storey construction. By the 1990s, there had been a distinct change in attitudes towards steel framed structures as a result of HERA's work, with designers increasingly turning to structural steel.



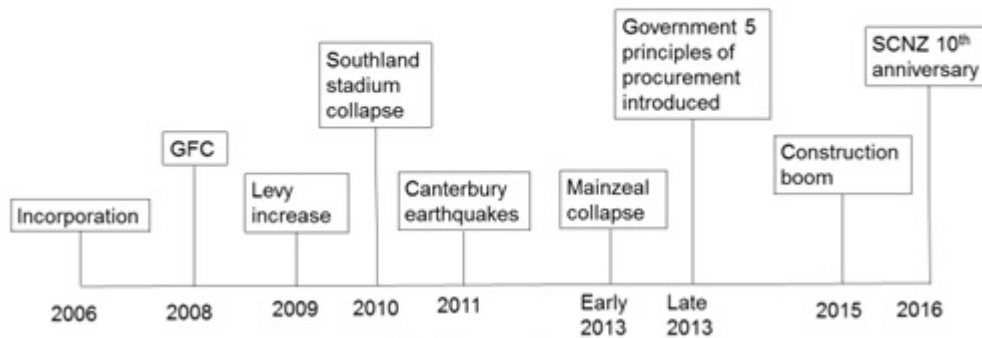
HERA House, home of SCNZ

The inception of the hugely successful Steel Structures Analysis Service (SSAS) in 1994, which assisted structural engineers with design using steel, proved another huge boost for the burgeoning industry. In 1998, a new interest group of fabricators and suppliers, called Steel Construction Industry – New Zealand (SCI-NZ), was initiated which gave direction to the SSAS service to increase marketing and promotion of structural steel.

Formed on the foundations of the SSAS and the SCI-NZ, following incorporation in 2006, SCNZ has played a significant role in the success of the structural steel industry through a strong focus on market development activities. Over the last 10 years, the organisation has significantly progressed many of the

activities that have successfully advanced the interests of the structural steel sector since the 1980s, whilst also advancing new areas of focus in response to major events that have changed and shaped the industry.

Organisation Shaping Events



Alistair Fussell, SCNZ Manager, comments: “The history of structural steel construction in New Zealand and the history of SCNZ are inexorably linked. The strong position of the structural steel sector in 2016 can be largely attributed to the innovative activities undertaken by the industry and its representative bodies over the last three decades.

“With the SCNZ team and industry driving these advances and building on the shared knowledge of the successes and failures of the past 20 years, I am confident that although there will be downturns, and external factors will affect the industry in unforeseeable ways, the structural steel industry in New Zealand has an exciting and prosperous future.”

The full story and an overview of SCNZ’s key achievements in the last 10 years are available [here](#).

SECURING THE FUTURE OF OUR INDUSTRY

For SCNZ, HERA and Metals NZ, government procurement reform via the Procurement Principles and Rules remains a priority and we have been closely monitoring the implementation of the reforms announced in 2013.

Alistair Fussell, SCNZ Manager, comments: “This issue remains a priority because we believe that we will all be better off in an environment where broader benefits are sought from public procurement other than just purchase cost. However, in order for our industry to benefit, we need to fully understand these new requirements and reposition our industry accordingly.”

The New Zealand government is forecast to spend around \$10b per annum on infrastructure, making it the single largest potential customer grouping for SCNZ members. The objective of the procurement reforms is to ensure that agencies spending taxpayer money deliver on the ‘Best Value for All’ objective, meaning more ‘whole of life’ and ‘balanced decision’ criteria (e.g. consider environmental, social and economic objectives, not just lowest price) are incorporated into open and engaging procurement interactions, considerations and tender awards.

This does not mean that New Zealand companies will have some preference over government agencies capital works versus international supply chains, even though there may be some requirements that can be more easily met by local companies. The Procurement Principles and Rules point to equal opportunities for all (global) suppliers and the differentiation to win tenders will have to come from

evaluations against more comprehensive decision criteria (including price) decided on by the procurer.

The Ministry of Business, Innovation and Employment (MBIE) was appointed as ‘functional lead’ for this project and are required to provide the framework and guidance necessary to enable agency adoption and capability development in applying the Principles and Rules of Sourcing. However, our industry has pointed out some perceived weakness in policy and implementation to MBIE.

Metals NZ has a seat at MBIE’s Business Reference Group for government procurement and recently met with MBIE and government agency representatives to look at what can be done to speed up the understanding and implementation of more strategic ‘Whole of Life’ and ‘Balanced Decision Making’ components. For example, more guidance documents are essential for balanced decision making and whole of life costing if procurers are to understand the obligation and benefits of these approaches.

Metals NZ is also in discussions with Business NZ to deliver a consistent, multi-pronged advocacy approach that will include meeting with specific agency procurers and politicians.

The rate of adoption of the new Principles and Rules varies across agencies. In recognition of this, MBIE have constructed a Capability Index, which will report on agency compliance, and which will be made available later this year.



Gary Hook, CEO of Metals NZ comments: “We can expect to see further shifts in procurement processes in the future as more Private-Public Partnerships are employed on large projects with the potential for more foreign funding lines. So the only certainty going forward is that further change can be expected in this business critical area of government agency procurement.

Alistair Fussell comments: “It is clear that the threat of more international supply chains extending into our market is now a reality. Government agencies will continue to be at the forefront of the larger building and infrastructure projects and that is why the focus of the implementation of the new Principles and Rules by government agencies is an important strategic issue for our industry.

“It will be critical to the future success of our industry to compete on a broader range of competencies with international players going forward, including safety and environmental performance. As an industry we need to be working closely with our customers to understand their changing needs and to continue to strive to provide compelling value propositions as our government agency procurement processes mature, which will be reflected in tender documents in time”.

The latest revision of the Procurement Rules (which covers the Five Principles of Government Procurement) is available [here](#).

STEEL UPDATE: STANDARDS AND COMPLIANCE GUIDELINES

The globalisation of structural steel supply chains has raised concerns over the quality of fabricated steelwork for New Zealand building and infrastructure projects from low-cost countries.



*Alistair Fussell,
SCNZ Manager*

In a recent presentation to the Auckland Structural Group, SCNZ Manager Alistair Fussell, addressed this concern via an overview of industry standards and compliance projects.

The presentation was recorded and is available to view on the [Auckland Structural Group website](#).

The compliance section of Alistair's presentation is based on a published SESOC article entitled: Ensuring the Compliance of Fabricated Steelwork Regardless of Origin (Volume 29 No. 1 April 2016). **This article has also been republished as an SCNZ Steel Advisor article (QLT 1001, 6 May 2016) and is freely available to members on the [Steel Advisor](#) section of the SCNZ website.**

A recently published complimentary article is also available free of charge to members as a Steel Advisor article on our website is: Imported Fabricated Steelwork Checklist (QLT 1002, 14 June 2016).

SCNZ AT INTERNATIONAL WORKSHOP ON CONNECTIONS IN STEEL STRUCTURES

Kevin Cowie, Senior Structural Engineer – Technical Development – recently gave a presentation at the Eighth International Workshop on Connections in Steel Structures (Connections VIII) in America.

Around 75 researchers, designers, fabricators and steel industry representatives, predominantly from North America and Europe, gathered in Boston on 24-26 May 2016 to collaborate and share knowledge within the areas of strength, behaviour, fabrication and design of connections for structural steel and composite steel/concrete frames.

Co-sponsored by the American Institute of Steel Construction (AISC) and the Northeastern University in conjunction with the European Convention for Construction Steelwork (ECCS), the invitation-only workshop included 10 sessions and 64 presentations on recent research and innovations in design and analysis.

Kevin presented the “New Zealand Perspective on Pre-engineered Standardised Industry Structural Steelwork Connections” and gathered useful information that will be helpful in developing NZ standards and updating NZ connections design procedures.

11TH PACIFIC STRUCTURAL STEEL CONFERENCE

The 2016 Pacific Structural Steel Conference (PSSC) will be held from the 29-31 October in Shanghai.

Organised by the China Steel Construction Society, the PSSC is a major initiative which brings together expertise in structural steel research, education and construction from all around the Pacific Rim and beyond.



Aiming for innovation, development and greater cooperation in the steel construction industry, this conference is committed to providing an effective face-to-face opportunity for the industrial members.

Ranging from large-span space structure, steel-concrete composite structure, seismic behaviour to residential steel buildings, this conference covers every aspect of the industry.

For more details on how to register (including an early bird offer) or to submit a paper, please visit the [PSSC website](#).

NEW SCNZ MEMBERS

SCNZ welcomed thirteen new members during the fourth quarter ending June 2016.

Associate (Steel Detailer)

Kapiti Coast Drafting Limited (T/A Draft IT), Paraparaumu
Steel Draft Technical Services, New Plymouth

Affiliate (Other)

MCU Coatings NZ Ltd, Auckland

Professional (Engineer)

Base Group Consulting, Whangarei
Tindus Ltd, Christchurch
Chapman Consulting Engineers Ltd, Timaru
Olsson Fire and Risk, Sydney
EQ Struc Ltd, Auckland
JDM Consulting, Christchurch

Full (Constructor)

Leading Edge Fabrication Ltd, Auckland
Peninsula Engineering Ltd, Silverdale

Professional (Academic/Student)

Dan Court-Patience, University of Canterbury

Professional (Quantity Surveyor)

Sharp Consulting Ltd, Havelock North

Steel Construction New Zealand

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