SCNZ STEEL CONSTRUCTION NEW ZEALAND

STEEL FUTURES

NOVEMBER 2019

2019 EXCELLENCE IN STEEL AWARDS

Congratulations to all our finalists, category winners and overall supreme winner in the 2019 Excellence in Steel Awards recently recognised and celebrated in style at the September SCNZ Gala Dinner in Wellington. This year we had just under 200 attendees, which is a record.

All the entries were worthy of recognition and were outstanding examples of the versatility, appealability and durability of structural steel. Well done to the 2019 Supreme Winner – AIAL International Departure Terminal Development nominator and Steel Constructor, D&H Steel Construction.

Enclosed with Steel Futures is the **2019 Excellence in Steel Awards** booklet for your perusal. Should you want additional copies, please do not hesitate to contact SCNZ.

Entries are now open for the **2020 Excellence in Steel Awards** – please go to www.scnz.org/Events&Awards/ExcellenceinSteelAwards2020, to get your entry form and award information.

2019 SCNZ APPRENTICE & YOUNG ACHIEVER OF THE YEAR

Well done to our winners and runners up in both the 2019 Apprentice of the Year and 2019 Young Achiever of the Year Awards. All were recognised at the SCNZ Gala Awards and are worthy recipients to these prestigious awards.

2019 Apprentice of the Year, Hayden Grace from John Jones Steel

2019 Apprentice of the Year:
Hayden Grace -
John Jones Steel
Runners up:
Jamie Pakoti -
Patton Engineering &
Mohammed Saheen -
D&H Steel Construction

2019 Young Achiever of the Year:
Jamie Moxon - D&H Steel Construction
Runner up:
Quinton Campbell -
Waikato Steel Fabricators

Entries are now open for the **2020 Apprentice of the Year & Young Achiever of Year**. For an entry form and more information please go to www.scnz.org/Events&Awards.

2019 Young Achiever of the Year, Jamie Moxon with his partner, Chantelle

Also in this issue:

Frank van Schaijik Appointed New Chair of SCNZ 2
Encore Training Forums 2
SCNZ Presents Award to UoA Student 2
SCNZ Continues High Strength Bolting Training 3
Structural Fire Design for Steel Framed Carparks 3
Design of Welded Structures - Fatigue & Fracture Seminar 3
Save the Date 4

FRANK VAN SCHAIJIK APPOINTED NEW CHAIR OF SCNZ

Steel Construction New Zealand (SCNZ) is delighted to welcome Frank Van Schaijik as its new Chair. Frank has nearly 40 years' experience in the steel industry and is a staunch advocate for New Zealand-fabricated structural steel.

"I'm honoured to be the new Chair of SCNZ. My priorities in this role will be continuing to foster SCNZ's relationships with structural steel fabricators and supporting them to advocate the value that structural steel brings to the wider construction industry," says Frank.

Frank van Schaijik, SCNZ Chairman

As a founding member of SCNZ and Managing Director of John Jones Steel, Christchurch, Frank has seen success in the majority of Canterbury's structural steel projects and in some of the larger jobs completed throughout the South Island. Frank has been involved with John Jones Steel since the tender age of five, growing up in the company with his father, the former owner. Frank officially started his career in the structural steel industry in his early twenties and has been the owner of John Jones Steel for 25 years.

Frank is looking forward to helping the structural steel industry tackle various ongoing challenges, including evolving design changes due to earthquake resistance and regulation. However, Frank is confident in structural steel's ability to meet the needs of the booming construction sector across the country.

"Following the Christchurch earthquakes, there has been an increased requirement across the sector for building with earthquake-resistant materials. Structural steel is the ideal choice of material due to being more stable and having seismic resistance capabilities," says Frank.

Considering the current state of the construction industry, Frank is optimistic about continuing to grow structural steel's market share.

"Structural steel is very dominant in the market as it stands, but there is always room to improve," he says. "SCNZ plays an important role in engaging with developers and owners and educating them about the advantages of structural steel. In terms of cost and efficiency, structural steel has a lot to contribute."

ENCORE TRAINING FORUMS

Due to high demand and great feedback from the forums we have held during the year, SCNZ have been requested to hold the following repeat forums for those who couldn't make it this year. Please note these forums are tentative and will depend on expressions of interest before confirmation.

- **SCNZ Fabricator/Distributor Procurement Forum** – 6th March 2020, Auckland
- **SFC for Beginners Workshop** – 13th March 2020, Auckland

For draft agendas please see under Events & Awards on our website.

If you are interested in attending please email info@scnz.org with details of which forums you would like to attend and intended number of participants.

SCNZ PRESENTS AWARD TO UOA STUDENT

SCNZ's Structural Engineer, Zahid Hamid, presented an "Excellence in Steel Design" award at the University of Auckland Civil and Environmental Engineering annual prize giving on 25 October.

This award was received by Emery Ning, who achieved the highest mark in his final year for Civil 713 – Structures and Design.

SCNZ is committed to academic excellence and is actively involved with engineering schools around the country. This is part of SCNZ strategic plan, "Education External" and to promote structural design.

UoA top steel design student, Emery Ning with Zahid Hamid

SCNZ CONTINUES HIGH STRENGTH BOLTING TRAINING

SCNZ has delivered 12 high strength bolting training courses to over 180 structural bolt installers, supervisors and inspectors since March 2019. A further three high strength bolt training courses are being delivered this month.

The introduction of this course comes after the extension of the SFC scheme to include a site erection module, capturing activities including on-site bolting, welding and erection.

The 2 ½ hour course is compulsory for structural steel contractors who want to achieve Steel Fabrication Certification (SFC) for erection; and provides attendees with a comprehensive knowledge of high strength structural bolted connections.

Attendees are able to understand and confidently apply the construction and inspection provision of the new AS/NZS 5131 Fabrication and Erection Standard, which applies to bolted connections.

The topics covered include:

- bolted joints
- bolting materials
- principal bolt installation methods
- inspection
- quality assurance.

This course employs a "learn and apply" format comprising presentation material, practical demonstrations, and hands-on experience.

If you missed out this year, further training courses will be offered from March 2020. Each training course is limited to 20 attendees. Please email **info@scnz.org** for further details and to register your interest. Please let us know how many staff you would like to have attend.

STRUCTURAL FIRE DESIGN FOR STEEL FRAMED CARPARKS AVAILABLE ON SCNZ WEBSITE

A SCNZ commissioned guide for the Structural Fire Design for Steel Framed Carparks written by Linus Lim and Martin Feeny of Holmes Fire and reviewed by a SCNZ chaired working group is now available on the SCNZ website, under **Design Tools**.

This document proposes an alternative methodology for calculating the inherent fire resistance of multi-bay, multi-storey steel framed carparking buildings with composite metal deck floor systems.

The proposed alternative method determines the capacity of steel beams within a carpark under exposure to realistic fires. The basis of the proposed methodology is from extensive research undertaken in Europe and Australia. Similar methodologies have been applied and developed in Europe

The methodology provides a robust method of reducing/eliminating fire protection to structural steel members in multi-storey steel framed carparks whilst satisfying the Performance Requirements of the New Zealand Building Code.

DESIGN OF WELDED STRUCTURES – FATIGUE AND FRACTURE SEMINAR

This HERA seminar will be presented by Professor Adolf Hobbacher one of the leading fatigue experts who is well known in New Zealand as the author of IIW Guideline on Fatigue Design of Welded Structures.

It will cover a range of fatigue assessment techniques focusing on a widely used nominal stress method which is included in AS/NZS 5100.6, NZS 3404.1 and AS 4100 as well as IIW Guideline. Worked examples to demonstrate the application of the assessment methodology will be presented.

For more information and to register, please follow the links below:

Christchurch 11 Feb 2020
https://www.hera.org.nz/event/design-of-welded-structures-chch/

Wellington 13 Feb
https://www.hera.org.nz/event/design-of-welded-structures-wellington/

Hamilton 19 Feb
https://www.hera.org.nz/event/design-of-welded-structures-hamilton/

Auckland 21 Feb
https://www.hera.org.nz/event/design-of-welded-structures-auckland/

SCNZ APPRENTICE OF THE YEAR 2020 AWARDS

SCNZ EXCELLENCE IN STEEL 2020 AWARDS

SCNZ YOUNG ACHIEVER OF THE YEAR 2020 AWARDS