

SCNZ STEEL CONSTRUCTION
NEW ZEALAND

STEEL FUTURES

WHAT IF THE WORLD DOESN'T END THIS YEAR?

It is possible that the world economy could fatally crash and the American dollar die this year. It is also possible that there could be a nuclear holocaust; outbreaks of SARS, Ebola virus and Influenza; oil could run out; Greenland's ice could melt and the sea could rise and flood New Zealand's coastal cities; free trade could destroy New Zealand industry; construction could stop altogether. In reality we know that none of these is likely to happen. However, it is very easy for our thinking to be drawn to the worst possible scenarios and for our attitudes and actions to follow suit. Destructive short term thinking, panic, and decision-making paralysis can result and these can have worse effects than the disasters that we dread against.

While we need to face the conditions and take appropriate precautions for the threats at hand, it is very important to keep a long range perspective. Day follows night and summer follows winter. Times of high economic activity follow times of low economic activity. The tide will come in after it has gone out. There is a natural order of cycles and seasons that also occurs economically. "There is a time for everything, and a season for every activity under heaven". (Ecclesiastes 3:1-3)

The key for success is to understand the beneficial aspects of the current time and use it effectively for long-term growth. People who know how to adjust and make the most of every situation life throws at them have found a key to success. Orchardists use winter, when the sap in the trees and vines has slowed its flow, to prune and prepare. A time of slower economic activity allows time for re-visioning, re-training and re-structuring. It is also the time when business relationships are tested and reputations are made that will allow confident decision making in the times of higher growth that follow.

Over the next six months SCNZ has a programme of initiatives and events that will help you make the most of the times. These include the series of talks by world recognised architect Peter Stutchbury in early March; the Steel Structures structural engineering seminar series around New Zealand in late March; the SCNZ Members' Event in the Hawkes Bay in April; and training courses for those who wish to apply for Steel

Structures Licensed Building Practitioner status, in May. Work is also progressing with updating the steel structures standards to bring them up to world best practice level in terms of accepted design and construction technology. A promotional campaign showcasing the unbeatable effectiveness of New Zealand designed and fabricated structural steelwork will be launched in March and run through the year.

Now is also the time to get your business systems in place to reduce environmental impact by implementing the SCNZ Sustainable Steel Construction Charter. For a limited time SCNZ is subsidising course fees for members who wish to attend the Enviro-mark training courses.

Don't forget the next generation! Get involved with your local high school and call SCNZ to see what can be done to develop pathways for young people to get into your business, who will move it forward in the years to come.

If you would like to know more about any of the above please fill in the info form on the back page and fax it back to SCNZ. Remember you can't change the times, but you can choose to make the most of them.

Clark Hyland
SCNZ Manager



*The SCNZ Team.
Roy Kane, Kevin Cowie, Alistair Fussell, Clark Hyland,
Rebecca Symonds, John Kotoisuva*

UPCOMING EVENTS

2009

March 2— Auckland Retreat with Peter Stutchbury

March 2-5—Steel in Architecture Evenings

(Auckland, Wellington, Christchurch, Queenstown)

March 12—SCNZ Council Meeting

March 24-2 April— Steel Structures Seminar Series

(Taupo, Takapuna, Auckland, Wellington, Christchurch, Nelson)

April 23 — Members Event, Hawkes Bay

May 5-22—Licenced Building Practitioner Training

(Wellington, Hawkes Bay/Taranaki, Auckland, Bay of Plenty/Waikato, Christchurch, Queenstown/Invercargill)

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SCNZ STEEL STRUCTURES SEMINAR: SUMMER 2009

MOMENT RESISTING FRAMES & NZS3404.1

Preparations for a full day seminar for structural engineers are well underway.

Attendees will be shown how to apply the many useful features of NZS3404.1: Materials, Fabrication and Construction. The new standard will be offered at a special discounted rate.

The seminar will also cover other topics and these include:

- The analysis of moment resisting frames using the direct analysis method.
- Moment resisting frame connections including CHS collar joints, flange bolted and sliding hinge joints.
- Design of column panel zones in moment resisting connections.
- Deep rafter stability

The main presenters are: Clark Hyland, SCNZ Manager; Greg MacRae, Associate Professor of Canterbury University; Alistair

Fussell, SCNZ Senior Engineer; Kevin Cowie, SCNZ Engineer. Guest appearances will also include Raed El Sarraf, HERA, and Bruce Forbes, SCNZ Senior Engineer. At each seminar location, local fabricators will also present case studies.

This is a not to be missed seminar for structural engineers.

Dates and locations are:

- 24 March** – Taupo, Millennium Hotel & Resort
- 25 March** – Takapuna, The Spencer on Byron Hotel
- 26 March** – Auckland, Waipuna Hotel & Conference Centre
- 31 March** – Wellington, West Plaza Hotel
- 1 April** – Christchurch, Crown Plaza Hotel
- 2 April** – Nelson, Fairfield House & Reserve

For more information, visit www.scnz.org and click on Steel Structures Seminars 2009.

LICENSED BUILDING PRACTITIONER TRAINING—STEEL STRUCTURES

The New Zealand's licensing scheme for steel structures commences from May 2009. By 2010, it will be mandatory for important design, site and construction work to be carried out by Licensed Building Practitioners. If you are not licensed by then, some of your work may need to be supervised by someone who is licensed. Plumbers, electrical workers, registered architects and chartered engineers, for example, already have their registration schemes.

In 2008 the Department of Building and Housing, together with the respective industries, developed the following licence classes: Roofing, External Plastering, Bricklaying and Blocklaying, Concrete Structure, Steel Structure and Building Services.

SCNZ is putting together a training plan to help steel structure licence applicants upskill in areas required, not only for the purpose of increasing knowledge and understanding but also to build confidence and have a strong application. The Department of Building and Housing with the support of SCNZ, will compile a guide for people thinking about applying to be a Licensed Building Practitioner in the structural steel sector. The licence will be for the individual, not the company or the organisation.

SCNZ will present a series of two day workshops to help members prepare their licence applications. These will be held on the following dates:

- 5 & 6 May** – Wellington
- 7 & 8 May** – Hawkes Bay/Taranaki
- 12 & 13 May** – Auckland
- 14 & 15 May** – Bay of Plenty/Waikato
- 19 & 20 May** – Christchurch
- 21 & 22 May** – Queenstown/Invercargill

(Venues yet to be confirmed)

The workshops will be presented by Clark Hyland and John Kotoisuva and will cover:

- Setting up a building site
- Organising and supervising steel construction
- Supervision of site crew
- Technical supervision
- Quality Assurance
- Health and Safety

Attendees will be taken through developing a project record which can then be used as part of their application.

SCNZ is looking for member companies to host the workshop site visits as part of this series and also sponsorship from member companies so that the cost can be reduced and affordable for attendees. For more information or if you would like to participate in these workshops, please contact John Kotoisuva on 09 262 6684, 021 636 812 or john.kotoisuva@scnz.org.

AS 2214 WELDING SUPERVISOR FOR STRUCTURAL STEEL COURSE

This year for the first time HERA is offering an AS 2214 *Welding Supervisor qualification*. AS 2214 specifically covers all aspects of welding to AS/NZS 1554; the welding standard for most NZ structural steel work.

This course has been developed to provide training for people working in a supervisory role in fabrication. For fabricators there are considerable benefits in having qualified welding supervisors. Staff qualified to this level are able to:

- implement the key requirements of AS/NZS 1554 at all stages of fabrication
- effectively liaise with designers, engineers, and customers when necessary.
- instruct and control fabricators and welders in cost effective

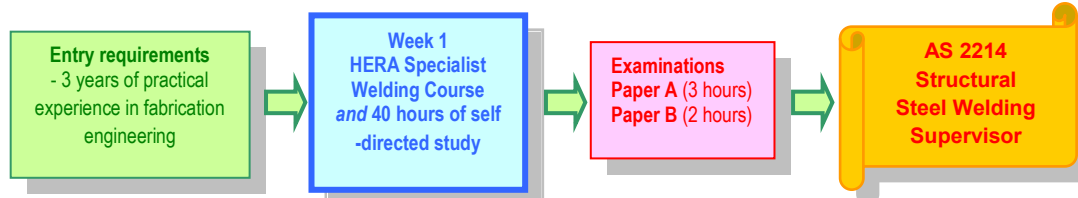
work practices

- specify consumables and equipment needs to technical representatives and sales people
- manage the costs of welder qualification/certification
- minimise the cost of rework by ensuring weld acceptance levels are met prior to any third party weld inspection

Course Dates:

AS 2214 Welding Supervisor: 16-20 March 2009

The course will be held at HERA HOUSE in Manukau City. For further information and details of course fees visit our web site www.hera.org.nz or contact us by email welding@hera.org.nz; telephone 09-262 2885.



THE VALUE OF GOOD HEALTH AND SAFETY PRACTICES IN THE WORKPLACE

"Savvy business owners are beginning to realise that good health and safety practices in the workplace make good business sense." So says Department of Labour Adviser, Paul Harrison, who points to a free, online tool that provides small businesses with guidance on

- Managing workplace health and safety
- Identifying common hazards in the workplace

"Time and effort directed at preventing injuries to staff and customers pays off," says Paul. "As well as reducing the human cost of workplace injuries, it can reduce ACC costs and increase productivity. Fewer injuries mean more people keep working. When staff feel safe in their workplace, they tend to stay. They also enhance your business's reputation and improve recruitment."

Developing a health and safety plan enables businesses to take a systematic approach to managing hazards. A good health and safety plan should cover:

- Hazard management
- Training and supervision

- Informing employees
- Employee participation
- Incident investigations
- Emergency readiness

The Hazard Handler is designed to help small businesses kick-start their hazard management system. It provides practical information on how to identify and handle both generic and industry specific health and safety issues. It should take less than an hour to complete. When you finish using the Hazard Handler, you can download a personalised Hazard Register. Please note that if the tool is left for 30 minutes on one page, a time-out will occur and the tool will re-set to the start page.

The Hazard Handler also provides application forms for the ACC Workplace Safety Discounts programme. To apply, submit these forms and your Hazard Register to ACC. To be eligible for Workplace Safety Discounts, you must be either self-employed or a small business within the agriculture, construction, forestry, motor trades, or road transport industries.

For more information, see www.dol.govt.nz or go directly to www.dol.govt.nz/onlinetools/hazard.asp.

HAWKES BAY GETAWAY—MEMBERS EVENT 23 APRIL 2009

When the going gets tough, the tough get going, and that's the mood of this upcoming Members' Event on 23 April 2009. It's time to put our heads together and give each other some encouragement!

Here's the plan: head for Hawkes Bay and take a quadbike tour of the rolling hills on Tirohia Farm. (Events start at 11.00am so that as many members as possible will be able to get there!) Follow up with some claybird shooting (it's very therapeutic), then some racing in off-landers, and you'll be ready for the lunch that will be brought to you by the mobile caterer known as 'Le Bus'. While you're letting off steam, your partner will be enjoying a day in Provence at the Sileni Culinary School – the class concludes with a three-course lunch in the style of this picturesque region of France.



There's more! SCNZ has negotiated special rates with the new Scenic Circle Te Pania Hotel on Marine Parade in Napier. Your partner will probably want to stay more than one night at this getaway.

For our business meeting we adjourn to the Tom McDonald Cellar at the Church Road Winery where our guest speaker (to be announced shortly), will have plenty of positives for you to take away. Then, after a wine tasting and a tour of the winery and its fascinating museum, a Church Road buffet banquet. All this to be shared with the very best of good company!

Cost (excluding accommodation):
Member delegates \$235 + GST
Partners \$155 + GST



STEEL IN ARCHITECTURE

You are invited to a talk by Peter Stutchbury, '...from where we once were.....' (10 CPD points)

We are pleased to announce that SCNZ will be hosting Peter Stutchbury, one of the leaders of a new generation of Australian architects, when he returns to New Zealand to give a series of talks to audiences in Auckland, Wellington and Christchurch. The title of his talk *... from where we once were ...* reflects one of Peter's central ideas: that our origins inform our work.

Peter will also speak about winning the 2008 Living Steel prize for architecture in extreme climate, a project in Cherepovets, which is between Moscow and St Petersburg, Russian Federation.

The registration fee is only \$30.00. The dates and venues are as follows:

- 2 March – 6.00 for 6.30pm University of Auckland**
- 3 March – 6.00 for 6.30pm Victoria University of Wellington**
- 4 March – 6.00 for 6.30pm Crowne Plaza Christchurch**

To book your seat, please call Rebecca Symonds on (09) 262 6682 or fax her on (09) 263 5638 or visit www.scnz.org and click on the link that will direct you to a booking form.



Rainforest Retreat with Peter Stutchbury (20 CPD points)

Book your seat for the Rainforest Retreat and gain an insight into the major considerations that guide an architect's deliberation.

For those interested in an opportunity to interact with Peter, he will provide an in-depth session for a limited number of 30 people at Auckland's Waitakere Estate from 9.30am to 2.30pm on **Monday 2 March 2009**. The fee for this is \$450.00 for members for \$500 for non-members, with lunch provided.

To book your place, please visit www.scnz.org and click on the link that will direct you to a booking form. **BOOK NOW.**



Auckland's Waitakere Estate

Want to know more? Just tick the box of the subject you would like more information about and fax back to 09 263 5638 and we will contact you.

- | | |
|--|--|
| <input type="checkbox"/> Licenced Building Practitioner Training | <input type="checkbox"/> Hawkes Bay Getaway |
| <input type="checkbox"/> National Cert. in Steelwork Detailing | <input type="checkbox"/> National Cert. in Rigging |
| <input type="checkbox"/> National Certificate in Heavy Fab | <input type="checkbox"/> Secondary School Trade Training |

Would you like to become a SCNZ member? For an annual subscription of only \$100 + GST you can enjoy the benefits of belonging to an association dedicated to the advancement of steel construction. Please tick the box below and fax back to the above number.

- Yes I would like to become a SCNZ member.

NATIONAL CERTIFICATE IN STEELWORK DETAILING

Competenz has agreed to establish a new diploma in steelwork detailing. A Sector Advisory Group (SAG) has been formed that includes representatives from the detailing sector and members of SCNZ and Competenz. The SAG will develop the qualification criteria and will function as its governing authority.

The SAG members are: Peter van de Made – Stevens Structural Engineering, Zane Bowler – Jensen Steel Fabricators, Cedric Easthorpe – BDS Steel Detailers (NZ) Ltd., Mike Courtney – BDS Steel Detailers (NZ) Ltd., Paulus Van der Pennen – Leighs Engineering Ltd., Clark Hyland – SCNZ, John Kotoisuva – SCNZ and from Competenz, Wolfgang Marshall, Vinod Naidu, Jonathon Gale and Paul Town. The first meeting is expected to take place in the first quarter of 2009.

NATIONAL CERTIFICATE IN HEAVY FABRICATION LEVEL 4

The review of the National Certificate in Heavy Fabrication Level 4 is almost complete. SCNZ is also a member of this review team and is pleased to report that the idea of a Steel Construction strand under the National Qualification has been accepted in principle and a draft is being put together by SCNZ and Competenz for the next SAG meeting. The Steel Construction strand will not take away what is already in the qualification but is intended to strengthen what is weakly represented and/or add to what is not represented.

For example:

- Site preparation, steel erection/rigging, health & safety on site, quality control on site.
- Project and Production management: understanding the production sequence and systems (including quality control) in the fabrication workshop and project management systems.
- Steelwork detailing - introduction.

MINING STRUCTURES CONFERENCE

The Southern African Institute of Steel Construction is planning a Structures for Mining and Related Materials Handling Conference to be held in November 2009. If you are interested and would like further information, please visit www.saisc.co.za or email Marlé Lotter at marle@saisc.co.za.

NATIONAL CERTIFICATE IN RIGGING

The National Certificate in Rigging qualification is undergoing a review; SCNZ is part of the review team and is seeking experienced structural steel erectors/riggers to contribute to the review. The objective is to make SCNZ member experience available to the review team and help it establish a rigging qualification that is robust, reflects best practice in terms of quality and safety, and is in the long-term interests of New Zealand steel construction. John Kotoisuva will be in touch with the Steel erectors for their contribution to this review.

SECONDARY SCHOOL TRADE TRAINING PROGRAMME

The primary objective of the programme with secondary schools is to attract and prepare the next generation of skilled workers into the steel construction industry. Such a programme introduces students to steel construction early and it gives Industry the opportunity to influence the next generation in work ethics and skills and show the various landmark projects, the different skills and expertise required for such projects and career opportunities that the steel industry has to offer.

A pilot programme was conducted last year with fourteen students from seven secondary schools and proved successful. A copy of the pilot programme review can be obtained from SCNZ on request. The 2009 programme that is scheduled to start on 19/02/09, is a two year programme engaging year twelve students who will be committing two days a week to the programme. About two thirds of the two days will be devoted to industry training and one third to the Polytechnic. On successful completion, the student will be awarded a National Certificate in Engineering Level 2, completing year one apprenticeship..

Queenstown is taking a keen interest in setting up something with a similar objective, working with the Southern Institute of Technology but doing it in a slightly different way. Competenz in conjunction with SCNZ is organising a consultation meeting for the Waikato region in February, to be held in Rotorua. Northland Polytechnic has indicated last year that they would like a meeting with their industry and the local secondary schools on the possibility of adjusting their current programme to incorporate the SCNZ approach.