

**Steel Structures Seminar Series:
Coatings, Composite Floor Construction and Braced Frames
REGISTRATION FORM**

Please complete this form and forward with payment to:

fax: 09 263 5638, post: SCNZ, PO Box 76403,
Manukau City, 2241 or email: info@scnz.org by March 10th 2010

Location:

- Taupo** - 16 March **Takapuna** - 17 March
 Auckland - 18 March **Nelson** - 23 March
 Christchurch - 24 March **Wellington** - 25 March

Attendee Names:

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Company:

Address:

Phone No: Fax No:.....

Email: (Contact person)

SESOC/HERA Member No: _____

SCNZ Member No: _____

Become an SCNZ Member – SCNZ Company membership fee to 30 Sep 2010. All attendees from companies applying for membership to SCNZ with this registration qualify for SCNZ member discount.

SCNZ Membership \$112.50 (incl GST)

FEES:

Fees include GST, food, refreshments and notes.

		# attending	Total Fees
<input type="radio"/> SCNZ Members	\$337.50	\$
<input type="radio"/> SESOC/HERA Member	\$371.25	\$
<input type="radio"/> Non-members	\$405.00	\$

Plus SCNZ Membership (if applicable) \$

TOTAL: \$

PAYMENT DETAILS

Please invoice (SCNZ members only)

Cheque enclosed (Please make cheques payable to SCNZ)

Please debit: Visa MasterCard

Card number

Name on card.....

Expiry date on card: /

SEMINAR SPEAKERS

Kevin Cowie BE(Civil) BCom CWE MIPENZ CPEng
SCNZ Structural Engineer

Alistair Fussell ME BE(Hons) MIPENZ CPEng
SCNZ Senior Structural Engineer

Stephen Hicks PhD(Cantab.) BEng(Hons)
HERA Structural Systems Manager

Raed El Sarraf BE(Civil) MEngSt ME(Civil)(Hons) GIPENZ
HERA Structural Engineer

VENUE LOCATIONS

Taupo - 16 March
Millennium Hotel
243 Lake Terrace

Nelson - 23 March
Fairfield House
Trafalgar Street South

Takapuna - 17 March
Fairway Lodge
7 Argus Place

Christchurch - 24 March
Crowne Plaza Hotel
Cnr Kilmore & Durham St

Auckland - 18 March
Novotel Ellerslie
72-112 Greenlane Road East

Wellington - 25 March
West Plaza Hotel
110-116 Wakefield Street

Cancellations

Persons enrolled wishing to cancel must do so in writing 7 days prior to the seminar to obtain a refund. After this date no refunds will be made.

SCNZ reserves the right to cancel seminars because of insufficient registrations or other reasons beyond its control, in which case fees paid will be refunded in full.



Steel Construction New Zealand Inc.

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Steel Structures Seminars Autumn 2010



**Coatings, Composite
Floor Construction
&
Braced Frames**

***A seminar and workshop
for Structural Engineers***

Dates:

- 16th March – Taupo
- 17th March – Takapuna
- 18th March – Auckland
- 23rd March – Nelson
- 24th March – Christchurch
- 25th March – Wellington

Composite Floor Construction

Composite flooring consisting of either metal deck slab or precast flooring supported on steel beams is a popular form of construction in New Zealand for commercial and residential buildings of two or more storey's in height.



Long Span and Slim Floor Systems

In the first composite flooring session the specific design and construction issues associated with long span beams (cellular and welded beams), slim floor construction and precast concrete flooring on steel beams will be discussed along with a consideration of optimized span arrangements.

Composite Columns and Innovations in Composite Floor Construction

This session will cover the ambient and



elevated temperature design of concrete filled and concrete encased composite columns. The potential benefits and issues associated with the use of light weight concrete and steel fibres in composite floor construction will also be covered.

Braced Frames

Braced steel frames are cost effective seismic lateral load resisting systems for steel buildings. In this session an overview will be provided of the behaviour and design of these bracing systems including concentrically braced frames, eccentrically braced frames and buckling restrained braces. Consideration will also be given to connection design and cost effective detailing.

Buckling restrained braces, which exhibit superior seismic performance to standard concentric braces, are not widely used in New Zealand. Design guidance, based on North American Code provisions modified for local design practice, will be presented for these systems, along with a worked example.



Coating Systems—Getting what you specify

A lack of quality control and improper application of coating systems can adversely affect the performance of such systems. This presentation will discuss these issues and a proposed Coating Application Accreditation Scheme will be introduced, which is intended to address these problems.

SEMINAR PROGRAMME

8.30am	Registration
9.00	Session 1 - Braced Frames Overview of steel braced frame behaviour, design methodology and interactive design workshop
10.30	Morning tea
10.45	Session 1 (continued)
11.15	Session 2 - Long Span and Slim Floor Systems Introduction to long span and slim floor structural systems; including design and construction issues followed by interactive design workshop
12.15	Lunch
1.15	Session 2 (continued)
1.45	Session 3 - Composite Columns and Innovations in Composite Floor Construction Design of concrete filled and concrete encased composite columns. Session will conclude with interactive design workshop.
2.45	Afternoon tea
3.00	Session 3 (continued)
3.30	Session 4 - Coating Systems - Getting What You Specify
4.30	Networking

*Lecture and tutorial format will be used to give opportunity for attendees to apply knowledge to worked examples.
Note: If possible please bring a calculator along with you on the day*