

**Steel Structures Seminar Series:
New Seismic Resisting Systems & Portal 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 18 September 09.

Location:

- Taupo** - 29 Sept **Takapuna** - 30 Sept
 Auckland - 1 Oct **Nelson** - 5 Oct
 Christchurch - 6 Oct **Wellington** - 7 Oct

Full Name :

Additional Names:

Organisation :

Address :

Phone No: Fax No:.....

Email:

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 and 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: /

Signature:

SEMINAR SPEAKERS

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

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

Clark Hyland PhD BE(Civil) BCom CPEng
SCNZ Manager & Senior Structural Engineer

VENUE LOCATIONS

Taupo - 29 September
 Lakeland Resort
 282 Lake Terrace

Nelson - 5 October
 Fairfield House
 Trafalgar Street South

Takapuna - 30 September
 Parklane Motor Inn
 2 Rewiti Ave

Christchurch - 6 October
 Crowne Plaza Hotel
 Cnr Kilmore & Durham Sts

Auckland - 1 October
 Novotel Ellerslie
 72-112 Greenlane Road East

Wellington - 7 October
 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 Spring 2009



**New Seismic Resisting
 Systems
 &
 Portal Frames**

Dates:

- 29 Sept 2009 – Taupo
- 30 Sept 2009 – Takapuna
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New Seismic Load Resisting Systems

Two seismic lateral load resisting systems currently used in North America will be introduced.

The sessions on new seismic resisting systems will provide an overview of the behaviour of these types of systems, design guidance and an interactive design workshop.

Moment Resisting Frames with Reduced Beam Sections

In a reduced beam section connection (RBS), portions of the beam flange are selectively trimmed in the region adjacent to the beam-column connection. Yielding and plastic hinge formation will then occur primarily within the reduced beam section reducing the inelastic deformation demands on the beam-column connection. The use of reduced beam sections also allows designers of steel moment resisting frames to better optimise the structural characteristics of the frames.



Steel Plate Shear Wall

A steel plate shear wall (SPSW) is a lateral load resisting system which consists of steel plate infills connected to surrounding horizontal and vertical boundary elements to form a rigid cantilever wall. Lateral loads are resisted through diagonal tension in the wall plate. These types of walls provide a

lightweight lateral load resisting system with significant strength, stiffness and ductility. They are used for new construction and for the seismic retrofitting of existing steel structures in North America.



Cost Effective Steel Portal Frame Design

Smart design and detailing can have a significant impact on the cost of steel portal frame buildings. In this session attention will be focused on cost effective structural arrangements with particular emphasis on optimizing the combination of critical components: cladding, purlins and portal frame member sizes and connections.



SEMINAR PROGRAMME

- 8.30am Registration
- 9.00 Session 1
Cost Effective Portal Frame Design
Principles of cost effective portal frame design and interactive design workshop.
- 10.30 Morning tea
- 10.45 Session 1 (continued)
- 11.15 Session 2
Moment Resisting Frames with Reduced Beam Sections (RBS)
Overview of moment resisting frames with reduced beam sections, design methodology and interactive design workshop.
- 12.15pm Lunch
- 1.15 Session 2 (continued)
- 2.15 Session 3
Steel Plate Shear Walls
Overview of steel plate shear wall behaviour, design methodology and interactive design workshop.
- 2.45 Afternoon tea
- 3.00 Session 3 (continued)
- 4.30 Networking

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