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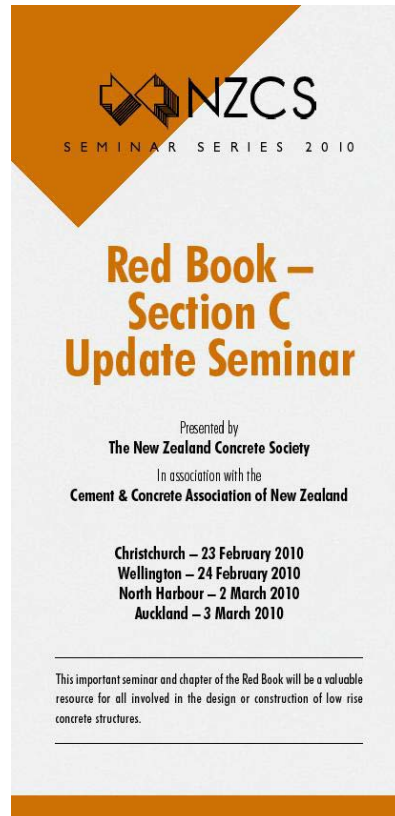
*Additional seminars
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NZ CONCRETE SOCIETY AWARDS

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RED Book - Section C Update Seminars

Following on from the RED Book - Section C seminar at this year's conference in Rotorua, CCANZ along with the New Zealand Concrete Society has announced update seminars.

The "Red Book" provides comprehensive design examples of concrete structures designed to the New Zealand concrete design standard NZS3101: 2006. The latest chapter in this book, and the focus of this seminar, is Part C – low rise industrial/commercial buildings.

The design examples comprise two distinct structures. A single storey industrial building comprising slender concrete wall panels and steel portal frames, with a two storey area comprised of concrete shear walls and frames.

The design examples have been chosen to illustrate many of the design issues associated with common low rise structures.

The seminar will cover the selection of the structural ductility factor, structural performance factor, and meeting the Code requirements for assessing curvatures and detailing in plastic regions.

This chapter of the Red Book will be an invaluable resource for all involved in the design or construction of low rise concrete structures.

Other Benefits

- Comprehensive resource through the seminar notes
- Knowledgeable and experienced speakers
- Networking with industry professionals

Who Should Attend?

Designers, Contractors, Engineers, Specifiers, Ready Mix Suppliers & TA's
Bound copies of the NZS 3101 Red Book (provides design examples for a 10 storey frame building) can be obtained from CCANZ at \$295 per copy (GST exclusive), to order contact Angelique at CCANZ, admin@cca.org.nz, phone 04 499 8820 or order on line at www.cca.org.nz

For more information and/or to register for the seminars contact the NZ Concrete Society on 09 536 5410 or concrete@bluepacificevents.com

New Zealand Concrete Society 2009 Concrete Awards



Alan MacDiarmid Building

The Alan MacDiarmid Building (Wellington) won both the **Concrete Award 2009**, and **Technology Award**. It is fitting that this Victoria University building, named after a Nobel Prize winning scientist, should incorporate cutting edge PRESSS technology. This is the first time in New Zealand that seismic damage reduction in the form of unbonded post-tensioned tendons and rocking joints have been utilised in a multi-storey building.

Four concrete structures make-up the Tauranga Harbour Link: Stage 2, a three-kilometre stretch of roadway which won the **Infrastructure Award**. Innovations include a large diameter and deep bored piling, post-tensioning of standard pre-tensioned beams to extend their span/load, and increased durability in a marine environment.



Tauranga Harbour Link: Stage 2

Reynolds Majsja House (Auckland) won the **Residential Award**. This project is a concrete addition to a timber villa. Contrasting with the lightness of the villa, exposed concrete provides substance, durability and thermal comfort. The raw boarded formwork finish is strikingly distinct from the abutting materials and demonstrates how concrete can complement other materials and contribute a strong yet sensitive aesthetic.

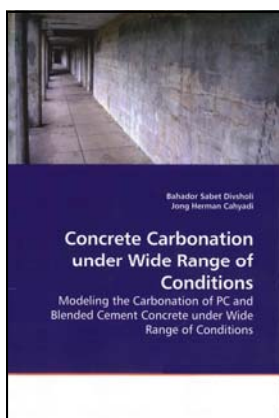


Ford Building

The **Landscaping Award** went to SH20 Walmsley Off Ramp - Rock Wall (Manukau). Although the contract called for a soil nail retaining wall finished with patterned precast panels, a natural looking basalt rock cliff face wall was substituted. This reduced the construction time and made for a more interesting and aesthetically appealing wall.

The Ford Building (Manukau) won the **Monte Craven Architecture Award**. Consisting of three floors, the upper two are contained in box that 'floats' above a fully glazed ground floor. Exposed internal precast core walls were water blasted to achieve an attractive texture. The post-tensioned concrete floor system and gravity-only columns result in an elegant, slender and light structure, that is enhanced by the modular precast cladding.

CCANZ Library - Recent Addition



Concrete Carbonation Under a Wide Range of Conditions by B.S. Divsholi

In urban and industrial areas with high CO₂ concentration, carbonation is the main deterioration mechanism affecting service life of concrete structures. Verified using the natural carbonation of concrete, this book proposes a mathematical model for carbonation that covers many parameters affecting the carbonation rate.

The input data for this model include physical and chemical characteristics of Portland cement and mineral admixtures, water/cement ratio, aggregate/cement ratio, maximum aggregate size, curing condition (period, temperature, relative humidity), preconditioning (period, temperature), CO₂ concentration, exposure time and the ambient conditions.

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