



# DESIGNING COMFORTABLE HOMES SEMINAR

NAPIER – FEBRUARY 7 2012 | AUCKLAND – FEBRUARY 8 2012  
WELLINGTON - FEBRUARY 9 2012 | CHRISTCHURCH - FEBRUARY 10 2012

PRESENTED BY



## WHY YOU AND YOUR EMPLOYEES SHOULD ATTEND THIS SEMINAR?

### THE OBJECTIVES OF THE CCANZ DESIGNING COMFORTABLE HOMES SEMINAR ARE TWO-FOLD:

1. Raise awareness of the importance of passive solar design, including the key role played by thermal mass, in helping to ensure a healthy, comfortable and energy efficient living environment.
2. Provide attendees with the level of knowledge and understanding required to enable the informed application of passive solar design principles in their professional undertakings, including the appropriate use of building performance thermal modelling software.

### EMPHASIS WILL BE PLACED ON:

- Understanding the principles of passive solar design for residential housing
- Optimising the benefits of thermal mass (concrete and concrete masonry)
- Exploring building performance thermal modelling software and how they can be integrated into the design process to ensure sustainability
- Demonstrating IES VE-Ware – a whole-building annual energy and carbon usage tool

### OTHER BENEFITS

- Information pack – including a copy of *Designing Comfortable Homes*
- 30 NZRAB CPD points
- 5 ADNZ CPD points
- International & NZ content
- Professional networking

### WHO SHOULD ATTEND?

Architects, architectural designers and architectural students

### PROGRAMME

Napier, Auckland, Wellington, Christchurch

12:30-1.00 pm Registration

1.00 – 4.00 pm Seminar

4.00 – 5.00pm Workshop (optional) /  
Networking and refreshments

### VENUES

**NAPIER** – Tuesday 7 February 2012

EIT - Taradale Campus / Lecture Theatre 1  
501 Gloucester Street  
Taradale, Napier  
Hawke's Bay

**AUCKLAND** – Wednesday 8 February 2012

UNITEC Room 001-207  
Mt Albert campus  
Carrington Road  
Mt Albert  
Auckland

**WELLINGTON** – Thursday 9 February 2012

Victoria University - School of Architecture  
Lecture Theatre 1  
139 Vivian Street  
Te Aro Campus  
Wellington

**CHRISTCHURCH** – Friday 10 February 2012

University of Canterbury / Room E7  
Civil & Mechanical Engineering Campus  
Engineering Road, Ilam  
Christchurch

### ADMISSION

NO CHARGE

### THE SEMINARS INCLUDE

- Tea and coffee during break
- Information pack – including a copy of *Designing Comfortable Homes*
- Post seminar refreshments

## SPEAKER PROFILE



### RALF KESSEL

CCANZ Architect (EU)

Originally from Germany, Ralf has worked as a project architect for a number of Berlin based practices, during which time he was involved with a series of large-scale developments. Ralf also spent five years in Ireland, where as part of a prestigious Dublin based practice he specialised in medium-rise city housing ventures. Firmly committed to intuitive architecture, Ralf's extensive list of commercial and residential projects has been characterised by a synthesis of concrete's aesthetic and practical potential with passive design values.



### DR LARRY BELLAMY

Associate Professor  
RMIT University, Melbourne,  
Australia

Dr Larry Bellamy is an Associate Professor of Building Science at the RMIT University in Melbourne, and an Adjunct Senior Fellow at the University of Canterbury (Department of Civil and Natural Resources Engineering). Larry also spent 10-years as an Engineering Lecturer at Lincoln University. His current research concentrates on new materials and designs that improve the sustainability and performance of buildings. Larry's extensive research on thermal mass in New Zealand homes has been used in the energy efficiency provisions of the New Zealand Building Code.



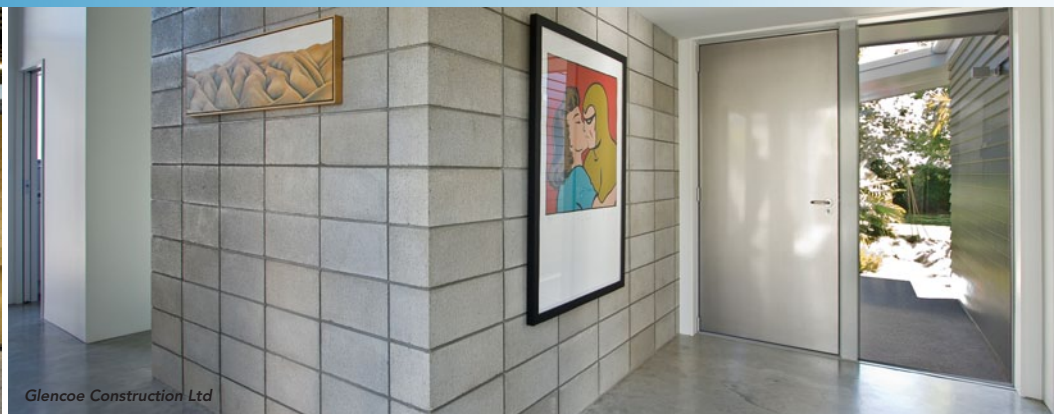
### ROGER CLADINGBOEL

Business Development Manager  
IES VE, Melbourne, Australia

Since graduating with a first class honours degree in building services engineering from the University of Dublin in 1997, Roger has acquired almost 14 years of experience in building services design and the application of energy, environmental and safety modelling software tools. During this time Roger has been involved in conducting and managing dynamic thermal, computational fluid dynamics and lighting/daylighting computer modelling studies. Working across the globe has enabled Roger to work on a variety of building projects and liaise with leading architectural and engineering practices.



Patrick Reynolds Photography



Glencoe Construction Ltd

### WHAT WILL THE SEMINAR COVER?

The seminar will look at CCANZ's 2<sup>nd</sup> edition of the EECA endorsed book *Designing Comfortable Homes*. This publication provides readers with an understanding of the basic principles of passive solar design, while also using computer modelling to show the comfort and energy efficiency benefits that can be achieved by employing two levels of insulation (Better Practice and Best Practice) that exceed the Building Code's minimum requirements.

The seminar will also outline the theory behind basic building physics and the benefits of thermal mass within passive solar design. This will involve examining the role of building performance thermal modelling software as a means to verify a sustainable outcome.

One such tool, IES VE ware, will then bring a practical element to the seminar by calculating the benefits of thermal mass and other variables to demonstrate the most appropriate use of passive solar design.

### HOW WILL THE SEMINAR BE STRUCTURED?

1. Passive solar design principles (*Designing Comfortable Homes 2<sup>nd</sup> ed*) - Ralf Kessel (CCANZ).
2. Integrating building performance simulation into design, along with new options for analysing the benefits of thermal mass - Dr. Larry Bellamy (RMIT, Melbourne).
3. Introduction to IES VE thermal modelling software.
4. Workshop with IES VE software - Roger Cladingboel (IES VE, Melbourne).

### WHAT WILL THE SEMINAR ACHIEVE?

Following the completion of the seminar attendees can expect to have gained a full understanding of the principles of passive solar design, including the key role played by the thermal mass of materials such as concrete and concrete masonry.

In addition, an appreciation of the possibilities offered through the use of thermal modelling software during a building's design phase will be attained, along with experience in the use of current thermal modelling software.

*All attendees will receive an information pack containing a copy of *Designing Comfortable Homes*, as well as being eligible for 30 NZRAB CPD points or 5 ADNZ CPD points.*



## REGISTRATION FORM – DESIGNING COMFORTABLE HOMES SEMINAR

Names \_\_\_\_\_

Company \_\_\_\_\_

Postal Address \_\_\_\_\_

Postal Code \_\_\_\_\_

Telephone \_\_\_\_\_ Mobile \_\_\_\_\_

Facsimile \_\_\_\_\_ Email \_\_\_\_\_

### PLEASE INDICATE WHICH VENUE

- Napier 7 February 2012       Auckland 8 February 2012
- Wellington 9 February 2012       Christchurch 10 February 2012

### PLEASE COMPLETE THIS FORM, TAKE A COPY FOR YOUR RECORDS AND FORWARD TO:

CCANZ Designing Comfortable Homes Seminar, PO Box 448, Wellington 6140. Fax: (04) 499 7760

For all enquiries phone: (04) 499 8820 or email [admin@ccanz.org.nz](mailto:admin@ccanz.org.nz)