

IET Lunchtime Event 2015
Wellington Engineering Festival 2015

Zero Net Energy Buildings for New Zealand – ‘The Architect’s Dream and the Engineering Possibilities’

In association with IPENZ and IEEE

No.1 The Architect’s Dream
Victoria University, School of Architecture

Dr. Michael Donn and Dr. Fabriccio Chicca

Tuesday 4th August 2015, 12.00-13.00
Terrace Conference Centre, Te Aro 1 room, 114 The Terrace, Wellington 6011
Registration Required: by email to darren.baxter@ndy.com

Seminar 1 -The development of the CIE international validation standard for Daylight Simulation, Dr. Michael Donn

His most recent involvement has been with the IEA in the Net Zero Energy Buildings (NetZEB) research project. With a colleague from France he led the ‘SubTask C’ which focused on Solution Sets for NetZEBs. A source book on the lessons learned from 30 case study buildings from many climates and of many end uses is in the final editing throes. This source book will form the basis of the presentation.

Biography

Dr. Michael Donn

Involved in Building Performance Analysis and Simulation for over 30 years. Director of the Victoria University Centre for Building Performance Research. Coordinator of the Building Science graduate programme for 20 years. Involved in 4 International Energy Agency collaborative research tasks: the first on Passive Solar Houses, led in the 1990s to the publication of a solar design and a solar construction guide; this was updated in 2001 as the design guide: “Designing Comfortable Homes” which based its design guidance on three levels of Insulation, Glass and Mass in houses. With the subsequent publication of the revised New Zealand Building Code minimum insulation levels at the Better level in the Good/Better/Best of the 2001 publication, the book was updated in 2010 to set three new levels. Two of the IEA projects focused on Daylight design and modelling ‘for the 21st Century’.

Seminar 2 - The performance of Wellington’s environmentally labelled buildings, Dr. Fabriccio Chicca

Nine Green Star rated buildings in the Wellington region were investigated in a joint Victoria University of Wellington (VUW) and Wellington City Council (WCC) research project. The aim of the project was to determine if Green Star buildings performed, in terms of energy and water consumption, as well as or better than predicted at the design phase and compared with the current local stock.

Biography

Dr. Fabricio Chicca

Building Science Programme Director, Senior Lecturer, Victoria University of Wellington, New Zealand
Dr. Fabricio Chicca is a Brazilian architect and urban designer with over 15 years' experience in all sectors of the real estate market. He developed a solid international career as a real estate developer before he completed his PhD which focused on urban sustainability, at Victoria University of Wellington. Current research interests include sustainable urban design, live architecture projects and urban agriculture.

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