

Beyond the Code

Practical ways to make buildings fit for the future

Thursday 22nd August 2019

Toowoomba City Library, Level 3, Corner Victoria and Herries Streets

Limited early bird tickets at \$50 (expires 5pm, 12/8), Renew & BDAA members at \$50
Full price tickets \$100. Tickets available [here](#) via Humanitix.

8:45am for 9:00am start. Finish 1:00pm. Light refreshments provided for morning tea.

Enquiries: Ross Campbell 07 4632 0439 or toowoomba@ata.org.au

In a time when building designers are striving to build better, more beautiful and more sustainable structures, they ultimately aim to build for the future going beyond the basic requirements of the building code to create their best works. For these visionaries, the BDAA in association with Renew presents *Beyond the Code - Practical ways to make buildings fit for the future*.

Outline

Beyond the Code covers virtually every aspect of building design with a real eye to a more productive, more sustainable future. Subjects discussed will include thermal performance and energy, identifying need and targets in this area and exploring the peak demand for electricity (with emphasis on grid effects and building design) and the limited effect of regulation (NCC, BASIX etc.). Also addressed will be the principles of the 'old' Passive Solar Design, in regards to crucial factors that include orientation, zoning, thermal mass, shading, insulation, ventilation, glazing, and problems remaining with condensation, peak demand, leakage, etc.

Guests also will learn about the specifics, benefits and applications of the verified 'next big thing' in sustainable building, Certified Passive House (Passivhaus). They will hear about how to design and build to Ph, certification process, PhPP modelling, blower door tests, and the placement of EnerPHit as Ph for renovations.

Building materials will be another subject addressed at this seminar, with topics including Embodied energy, Operational costs, Life Cycle Analysis, the Avoid-Reuse-Recycle concept, Timber & timber treatment, Product search resources, Hazardous materials & safe options, Termite management, and indoor environmental quality & off-gassing.

Water will be discussed specifically in terms of hot water and waste water.

Have your questions answered;

What will the water availability be in a changing climate?

What will be water efficiency choices and the best options for water heating 2019?

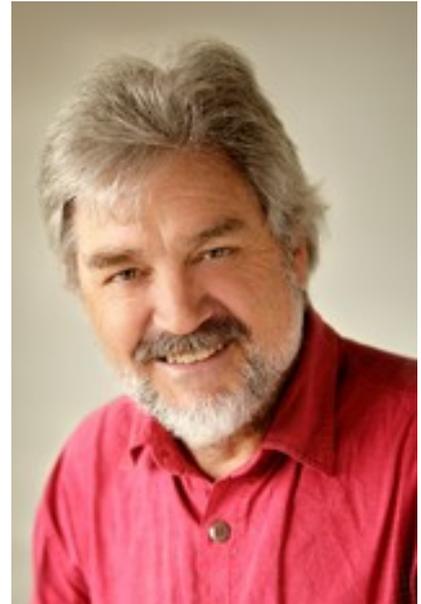
What will be waste water treatment options and limitations, water harvesting options and myths busted, and stormwater design options for restorative landscapes?

Guests also will learn how to up-sell sustainability to clients, how to analyse your client types and find their drivers, and the benefits of going beyond minimum compliance.

Presenter

Dick Clarke is the Principal of Envirotecture and Director of Sustainability for Building Designers Association of Australia. Dick has a Masters of Sustainable Futures degree from UTS. He is also a past President and Board Member of the Association of Building Sustainability Assessors (ABSA).

He is the editor of the book “How to Rethink Building Materials” and has had a major role in the Australian Government’s highly acclaimed “Your Home” design guide. He was also involved in BASIX and the NatHERS to AccuRate upgrade. Dick has been Design Director of many hundreds of projects with the ever-changing understanding of what sustainability means. His specialties extend from passive design to zero net energy buildings.



Your Hosts

renew.
Leading in sustainability

Renew is a national, not-for-profit organisation that inspires, enables and advocates for people to live sustainably in their homes and communities. Established in 1980, Renew provides expert, independent advice on sustainable solutions for the home to households, government and industry and publish Sanctuary and Renew magazines. The Renew Toowoomba Branch was established in late 2014 and has been active in promoting sustainable living and climate action in the local area.

renew.org.au



**BUILDING DESIGNERS
ASSOCIATION OF AUSTRALIA**

Building Designers Association of Australia is a not-for-profit, peak industry association representing Australian designers involved in, or associated with the built environment nationally. Their key role is to educate and raise awareness of designers within the industry, to build and sustain relations with the key stakeholders, and to provide services to members. The National Committee of committed, skilled volunteers focus on governance, strategic direction, education, membership growth and marketing and communications.

bdaa.com.au

Workshop Outline

Arrive 8.45 am, Workshop runs from 9:00am to 1:00 pm and includes morning tea.

9:00 - 10:45 *Thermal performance and energy*

- Big Picture reminder of what the need is, what the targets are
- peak demand for electricity - effects on grid, and building design
- limited effect of regulation (NCC, BASIX etc)
- principles of 'the old' Passive Solar Design
 - orientation, zoning, thermal mass, shading, insulation, ventilation, glazing
- problems remaining with condensation, peak demand, leakage etc
- better standard in 'next big thing' Certified Passive House (Passivhaus)
- benefits to occupants and society
- how Ph works
 - air-tightness, materials & joints, windows & doors, insulation, envelope & glazing
- fresh air management
- HRV system
- shading
- PV system
- how to design to Ph
- how to build to Ph
- certification process, PhPP modelling, blower door tests etc
- EnerPHit is Ph for renovations

10:45 - 11:00 *Morning tea*

11:00 - 11:45 *Materials*

- embodied energy
- operational costs
- Life Cycle Analysis
- Avoid-Reuse-Recycle
- timber & timber treatment
- product search resources
- hazardous materials & safe options
- termite management
- indoor environmental quality & off-gassing

11:45 - 12:30 *Water, hot water, waste water*

- water availability in a changing climate
- water efficiency choices that people like
- best options for water heating 2019
- waste water treatment options and limitations
- water harvesting options and myths busted
- stormwater design options for restorative landscapes

12:30 - 1:00 *Selling sustainability to clients*

- how to up-sell sustainability to clients,
- analysing your client types, find their drivers
- benefits of going beyond minimum compliance