

Integrated Timber Design Workshop

Two-Day Continuing Professional Development Course

The Future Timber Hub at The University of Queensland invites practicing engineers, architects and other building design professionals to join us for a 2-day continuing professional development course on integrated design of timber buildings, with focus on fire safety, durability and building physics.

Integrated design ensures that all design aspects are considered simultaneously at all design and construction stages. Failure to apply an integrated design approach can lead to delays, rework and redesign, and even failure of a project. This course will present the state-of-the-art knowledge on fire safety engineering including façade detailing, design for durability and how this is reflected in maintenance, and why air-tightness is equally important in Queensland as in Tasmania.

Upon completion of the course, the participant should be able to:

- Understand the importance of an integrated design approach in timber design and construction;
- Adopt an informed and thoughtful approach to the consideration of fire in timber buildings;
- Make informed decisions with regards to detailing for durability and maintenance of timber structures;
- Identify options “beyond air-conditioning” when it comes to building physics and user comfort;
- Situate the current state of the art in the context of current research and development and future trends.

WHEN:

Monday 9 December 2019 - 8:30am to 4pm and
Tuesday 10 December 2019 - 8:30am to 4pm

CPD:

6 CPD points per day (12 total)

WHERE:

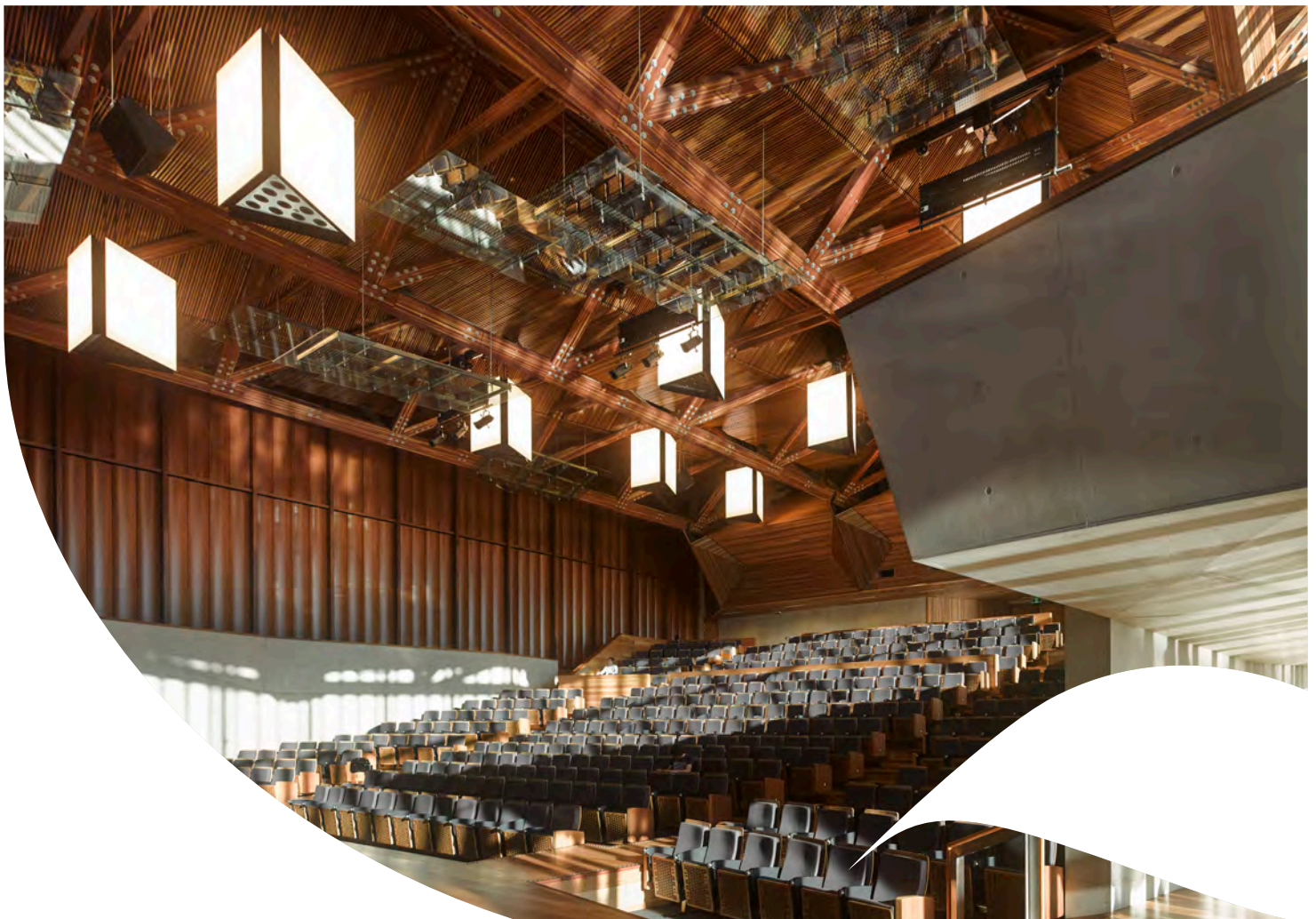
The University of Queensland, St Lucia Campus
Advanced Engineering Building (49)
Room 313A

CONTACT:

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W: www.futuretimberhub.org



REGISTRATION FEES:

Course fees include catering, lecture notes and certificate of attendance. The rates are per person and include GST.

Spaces are limited - REGISTER NOW!

<https://futuretimberhub.org/events/integrated-timber-design-workshop>

Early Bird (register before 22 November 2019)	\$1,600
Standard Rate	\$1,900
Group (5 or more people), per person	\$1,400
Day Rate	\$1,200

DAY 1 - COURSE PRESENTER / OVERVIEW - 6 CPD



Professor Jose Torero

Professor Jose Torero is an expert in Fire Safety Engineering and Head of Department of Civil, Environmental, Geomatic & Environmental Engineering at University College London. Professor Torero works in many aspects of fire safety engineering, remediation and sanitation. He has developed novel methodologies for the safe design of complex buildings such as tall buildings, historic architectures and timber structures.

Topic: Introduction to Fire Safety Engineering of Timber Structures

The use of timber as a structural material introduces a number of issues associated to fire safety that need to be addressed in a very careful manner. These issues are going to affect the integrity of the fire safety strategy in as much as they will affect firefighting operations. Furthermore, the objectives of the fire safety strategy need to be changed to adapt to the new constraints imposed by the presence of timber structures. To be able to understand these new constraints and how to formulate a strategy correctly, it is imperative to understand the pertinent issues associated to timber. Particularly in the case of engineered timber products. These are composite materials with unique performance when exposed to heat. The lectures will cover the performance of timbers as a material, the new issues arising from engineered timber products, its effect on a compartment fire and the effect of the compartment fire on the timber. The presentations will address issues of exposure of timber and encapsulation as well as flame projections and façade detailing. Finally, all these components will be structured around a new approach towards the fire safety strategy and the production of a Fire Engineering Brief and Fire Engineering Report.

DAY 2 - COURSE PRESENTERS / OVERVIEW - 6 CPD



Geoffrey Stringer

Civil Engineer with 40+ years' work experience in timber product manufacture and durability. He has been active in the development of timber Standards since 1984 and is the past chair of TM-10 Timber Structures and Framing Technical committee. He has been a guest lecturer for the last 2 years in the UQ Design of Timber Structures elective subject and is now transitioning into retirement by undertaking PhD studies at UQ.

Topic: Durability Engineering for Timber Structures

The workshop will cover many facets of this topic including: evolution, principles, design, maintenance, tools, case studies, a workshop exercise and the challenges ahead.



Samantha Anderson

Samantha is an Associate in Building Physics at the Inhabit Group and has a comprehensive understanding of building performance, facades and all properties of glass. As an expert in building physics, Samantha strives to dismantle common misconceptions around building ventilation and building physics in subtropical climates.

Topic: Why airtightness is equally important in Queensland as Tasmania?

The following topics will be covered in this workshop:

- Basics of moisture transfer and moisture drive
- The challenges of "drafty" building in humid climates, what happens when we get it wrong.
- Detailing for moisture and airtightness- the red pen test.
- Ensuring materials are fit for purpose.

For further information:

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CRICOS code: 00025B



CREATE CHANGE