

# Creative architecture with composites

## A webinar redefining what is possible in the world of composite engineering for architects and designers

Wednesday, 10 August 2016  
Location: Online webinar

Time: 11am to 12.10 pm AEST



### Overview

New technology and composite materials are helping designers create highly complex and dramatic architectural features that push the boundaries of composite engineering to create landmark buildings and public artworks for clients.

In this webinar leading Australian architects, engineers and composite manufacturers will share their learnings from major projects, explore the opportunities and the challenges to realizing the potential of composites in design and architecture and how we can work together to achieve amazing buildings and structures.

They will look at the benefits of composite materials in architecture and some of the latest and most striking examples both in Australia and overseas; explore the synergy between architect and composite design software platforms that is smoothing the way for partnerships that deliver amazing aesthetics; identify the hurdles to adoption and the engineering support available to Australian designers and composite manufacturers.

### Program

11.00 am - 11.10 am	Welcome and introduction—Kerryn Caulfield, Executive Manager Composites Australia
11.10 am - 11.25 am	The architect's perspective—David Karotkin, Managing Director, Sandover Pinder Architects
11.25 am - 11.40 am	The composite design engineer's perspective - Tony Stanton, Engineering Manager, Gurit Asia Pacific Ltd
11.40 am - 11.55 am	Certification and compliance: the design engineer's perspective - Warren Miller, Senior Design Engineer with DIAB
11.55 am - 12.10 pm	The case for FRP: The civil engineer's perspective - Brian Nelson, Director of Capital House Australasia

### Who should attend

This webinar is designed for student and practicing architects, designers and engineers wanting to take advantage of the opportunities to incorporate composite materials in their designs and for composite professionals working in or wanting to enter this market.

For more details and registration form see reverse

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# Presentation Overview

## The architect's perspective - David Karotkin, Managing Director at Sandover Pinder

David will present a case study using the Western Australian Institute of Sport High Performance Service Centre which was completed in 2015. He will outline why composite cladding was used, the advantages and challenges - the architectural outcome - and how the technology might be adopted in future designs.

## The composite design engineer's perspective - Tony Stanton, Engineering Manager, Gurit Asia Pacific Ltd

Tony will use Rore Kahi, Maori for "soaring hawk", the unique structure built on a hilltop within the Rangihoua Heritage Park in New Zealand's Bay of Islands, as a case study.

Working with architect Pip Cheshire, and Core Builders Composites, Gurit provided engineering design of this structure using finite element analysis with combined laminate and geometric optimisation to help create a composite structure that matched the architectural vision and tight project budget and provided a viable materials solution to this unique application.

## The civil engineer's perspective - Brian Nelson, Director of Capital House Australasia

Brian will outline recent and varied projects covering as many alternative approaches to using FRP in building structures and cladding as possible.

Capital House Australasia has been bridging the gap between the composite and construction industry on many projects. Examples of diverse design approaches taken will illustrate the extensive potential and some of the 'how and why' of composites in architecture. Brian will discuss structures including: a pavilion building; a large canopy; a pedestrian bridge and a railway station canopy. Important issues relating to design, build-ability, procurement and collaborative team approaches will be discussed. The clear advantage of FRP construction in these and other projects will be apparent.

## Certification and compliance: the design engineer's perspective - Warren Miller, Senior Design Engineer with DIAB

Using recent case studies, Warren will discuss material selection, material systems and composite manufacturing technologies as they relate to Australian building and construction certification and fire rating performance.

Members (Composites Australia; Institute of Architects; DIA; Engineers Australia)	Complimentary	Non members	\$30.00 Incl GST
Students of member organisations	Complimentary	Students of non-member companies	\$15.00 Incl GST

Register online at [www.compositesaustralia.com.au/events](http://www.compositesaustralia.com.au/events) or complete and fax to 03 9421 5516 or email [admin@compositesaustralia.com.au](mailto:admin@compositesaustralia.com.au) by Noon Tuesday 9th August 2016

<b>Registration Form and Tax Invoice</b> Please copy this form for additional registrations		<b>Composites Australia Inc</b> ABN: 28 611 244 813 17 Rooney St, Richmond VIC 3121	
<b>Prices inclusive of GST</b>			
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