

# The Double Helix Pedestrian Bridge at Marina Bay, Singapore

Tuesday 9 September 2008 at 5:45 p.m. for 6:00 p.m.  
Hawken Auditorium, Engineering House,  
447 Upper Edward Street, Brisbane

Mr Greg Killen  
ARUP



Singapore's Marina Bayfront is soon to be the site of a pedestrian bridge without structural precedent. Inspired by the twisting form of DNA strands, the 280m long crossing cannot be described as belonging to any of the existing structural typologies. Constructed almost entirely from duplex stainless steel, the superstructure comprises two sets of opposing spirals, touching only below the deck. The spirals are held apart by a series of light, strut and cable, stiffening rings.

A discussion of the design approach including the various analysis techniques employed; automation and optimisation of member design; and design methods specific to structures using duplex stainless steel will be the topic of this presentation.

Greg Killen is a Senior Associate with Arup and a specialist structural engineer with fifteen years of experience. Currently he is also Arup's design manager for Brisbane's highly anticipated Tank Street Pedestrian Bridge.

Greg is also an Adjunct Lecturer in Civil and Structural Design at the Schools of Engineering and Architecture at the University of Queensland.

**\*\*\*TO REGISTER FOR THIS EVENT PLEASE CONTACT LAUREN MOON AT QLD  
DIVISION OFFICE AT  
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