

2nd World Congress and Exhibition on

Construction & Steel Structure

September 22-24, 2016 Las Vegas, USA



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The ABC and D of steel and composite structures: Australian experiences

This paper will look at the important Advances, Behaviour, Construction and Design practices in the area of steel and composite structures focusing on Australian Experiences. A historical expose of the use of steel and composite structures will be provided, together with the Advances in material behaviour, particularly steel strengths. Significant research which has looked into the fundamental Behaviour of steel and composite structures over the last half century will also be provided. As is often the case, Construction often leads the way in innovation and this will also be highlighted in the paper. Finally, the paper will focus on Design and the significant developments in Australia to codify recent advances in steel and composite structures for buildings and bridges focusing on the soon to be released AS/NZS 2327 and AS/NZS 5100: Part 6 on steel and composite structures for buildings and bridges respectively.

Biography

Brian Uy is Professor of Structural Engineering and Director of the Centre for Infrastructure Engineering and Safety (CIES) in the School of Civil and Environmental Engineering at The University of New South Wales in 2013. He has co-authored over 600 publications including over 150 journal articles. He has delivered over 250 conference papers in 35 countries, including over 50 keynote/invited lectures in 15 countries and has been involved in research in steel and composite structures for over 20 years. Brian is Chairman of the Standards Australia Committee BD32 on Composite Structures which is currently preparing the Australian/New Zealand Standard AS/NZS2327 on composite structures for buildings. He has been the Chairman of the Australia Regional Group of the *Institution of Structural Engineers* since 2012 and the Chairman of the Australia Group of the *International Association for Bridge and Structural Engineering* (IABSE) since 2015. Brian is Chief Editor (Asia-Pacific) for Steel and Composite Structures and serves on the Editorial Board of *Journal of Constructional Steel Research and Advanced Steel Construction*. He also currently serves on the *American Institute of Steel Construction* (AISC) Task Committee 5 on Composite Construction and the IABSE Working Commission 2 on Steel, Timber and Composite Structures.

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