



2017 AWES Lecture Series

Architectural Aerodynamics: Wind tunnel testing for structural wind loads and cladding pressures

Presented by: Leighton Cochran, MEL Consultants

Leighton will discuss how physical modelling in the boundary-layer wind tunnel can improve building design and post-disaster resilience in cyclonic regions. In cities like Darwin, a site-specific, building-specific, wind-tunnel study allows the architect and engineer to refine the cost of both the structure and façade to the benefit of the design team and the end user. The physical modelling process will be presented, as will key issues to discuss with the wind-engineering laboratory during the consulting process.

Are our houses and low rise buildings failing us? Report on performance from recent cyclones

Presented by: David Henderson, Cyclone Testing Station, JCU

David to give a talk on findings from recent damage surveys of residential and industrial buildings following TC Marcia and TC Debbie. Issues to be covered include wind driven rain water ingress, flashings, building envelope, local pressure regions, and internal pressure. Proposed changes to cladding and flashing Australian Standards and the wind driven debris impact test requirements also discussed.

Monday 21 August, 2017

**4:15 pm for a 4:30 pm start in the Theatrette,
Museum and Art Gallery of the Northern Territory**

This is a free public lecture but please register through...

<https://2017awesdarwinlecture.eventbrite.com.au>

Networking drinks and eats will be served after the lecture.

