



Stormwater Industry Association of Queensland Inc

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Technical Event—February 2010

Brisbane River Hydraulic Model to Probable Maximum Flood (PMF)

**James Charalambous, Senior Engineer
Brisbane City Council**

Thursday, 18th February 2010 - Urban Hotel, Brisbane

Presentation Overview

With the advent of climate change there will be a requirement to implement adaptation strategies. Of particular relevance to the stormwater industry are sea level rise, storm surge/storm tide, changes in rainfall intensity & duration, waterway health and creek/river flooding impacts.

The Brisbane River Hydraulic Model to PMF project is an example of the 'disaster preparedness and response' strategy being adopted by Brisbane City Council. The project has delivered a two-dimensional (2D) hydraulic model of the Brisbane River from Wivenhoe Dam to Moreton Bay. The model outputs have been translated into flood emergency response tools to be utilised during a river flooding event.

Overall this project represents a significant improvement in the flood response capability of the Council. However there is a requirement to undertake further works particularly in the context of community education, future technology and new data.

About the Presenter

James Charalambous has approximately 15 years of consulting experience and has worked on a wide variety of cross-industry projects for the government and the private sector, ranging from engineering design and construction, environmental impact assessment and policy work.

James has significant experience in environmental modelling, predominantly in water. James completed a Masters of Engineering (Flood Estimation) in 2005 and a Diploma of Project Management in 2007. He is a Senior Engineer within the Flood Management team of City Design.

