



Presentation on Cape Clear Island Hydraulic Storm Gates

Winner Irish Concrete Society Award 2016

Date: Tuesday 10th May

Time: 18:30 (Tea/Coffee from 18:00)

Venue: DIT, Bolton Street

Speaker: Richard Browne, Director, L&M Keating Building & Civil
Engineering Contractors

Synopsis: The presentation will demonstrate the novel approach taken to the design and construction of the new automated storm gate harbour entrance to Cape Clear Harbour. It will detail how engineering challenges associated with underwater and overwater building works on Ireland's most southerly inhabited island were overcome through novel design and temporary works. As part of the works, the 1000t concrete storm gate lock chamber was constructed in Cobh Dock Yard and towed over 100km to Cape Clear Island. The presentation will highlight the challenge of ensuring that this 15m x 15m x 9m high 1000t chamber 'arrived on the right day, at the right stage of the right tide, with the right weather conditions to slot the chamber into exactly the right spot in a two hour tidal window'. The complete CE marked solution includes two 30t steel gate leaves actuated by 140t hydraulic rams and electric powered HPU's controlled by one central computerised control panel.

Speaker Bio: Richard Browne is a Director at L&M Keating and was recently awarded Engineers Ireland Chartered Engineer of the Year, 2015. As Project Director, Richard had overall responsibility for the construction of the works through his construction team and was Design Lead and Coordinator for contractor design build and temporary works on this technically challenging project.

Admission FREE

Booking Not Necessary

Non-Members Welcome