

Award-winning paper in 2011

Papers published in *Bridge Engineering* are eligible for awards from the Institution of Civil Engineers. Papers from any of the ICE journals can be nominated for several awards. In addition, each journal has awards dedicated to their specific subject area.

On Friday 12 October 2012, ICE president Richard Coackley presented awards to the following paper published in *Bridge Engineering* in 2011. The editorial panel nominated their best papers and an awards committee chaired by Barry Clarke allocated the awards.

John Henry Garrood King Medal

The John Henry Garrood King Medal, for the best paper published by the Institution on tunnels, soil mechanics or bridges, was awarded to Cutter *et al.* (2011).

Abstract

The Samuel Beckett Bridge, Dublin City's newest bridge, is now established as a landmark movable structure spanning the maritime gateway to the city. The bridge is located east of the city's centre and within the 'heart' of the newly developed docklands area, facilitating an important urban transport link for private car use, public transport, cyclists and pedestrians; and contributing towards the improved environmental, commercial and social development of the urban area in which it is located. The bridge is a Calatrava-designed, cable-stayed, steel box girder structure, with a span, across the River Liffey, of 123 m. The bridge, which rotates through 90°, has an asymmetric shape reflecting that of a harp laid on its side, with the base to the cable-stayed steel pylon set outside of the river's navigational channel – 28 m from the river's south quay wall. The pylon curves northwards to a point 46 m above the water level with 25 forestay cables set in a 'harp' formation. This paper describes the basis of the bridge's structural and operational design, and the manner in which the main river support was constructed, and the superstructure fabricated and positioned.



ICE President Richard Coackley (right) with John Flanagan, Gaute Mo, Philip Brown and Jerry Cutter, winners of the John Henry Garrood King Medal

REFERENCE

Cutter J, Flanagan JW, Brown P, Rando M and Mo G (2011) Samuel Beckett Bridge, Dublin, Ireland. *Proceedings of the Institution of Civil Engineers – Bridge Engineering* **164**(3): 133–144, <http://dx.doi.org/10.1680/bren.2011.164.3.133>.