

ENGINEERING SEMINAR

Queensferry Crossing in Scotland

Abstract

Recently opened to much public acclaim, Queensferry Crossing is the largest civil engineering project Scotland has seen in a generation. The main crossing across the Firth of Forth is a 1.3 mile long cable supported structure with back to back main spans of 2,130 ft. The project was procured through fixed-price design build contracts. A joint venture between Hochtief, Dragados, American Bridge and Morrison Construction won the principal contract. Queensferry Crossing is set in a UNESCO world heritage site. The project has produced an excellent return on investment as it spans busy waterways, and responds to the unique structural challenges of a double stay man span. This presentation will describe the design, procurement and construction of the bridge.

Matt Carter, PE, PEng, CEng

Principal

Arup



Matt Carter, PE, PEng, CEng, is a Principal with Arup, based in New York. He is a civil engineer with extensive experience in the conceptual and detailed design of long-span and complex bridge structures in North America, East Asia, Europe, Africa and Australia. Matt has been involved in numerous design-build projects and public private partnerships with both owners and contractors as clients, gaining unique insights by working from different perspectives. Matt had significant involvement in the conceptual design of the Queensferry Crossing including development of the unique crossing stay cable system.

Date: Monday, November 27, 2017 Time: 5:00 – 6:30 p.m.

Location: Baldy 200G, North Campus, University at Buffalo