Monday 25 & Tuesday 26 November 2019
America Square Conference Centre, London

Key event highlights:
- Dedicated half day seminar focused on the monitoring and maintenance of existing structures
- Exploring innovation in materials, access and technology
- A vibrant meeting place for the key stakeholders in the supply chain – clients, consulting engineers, contractors, architects and specialist suppliers
- In depth analysis of several high-profile bridge projects, including existing assets and new builds

Monday 25 November 2019

Pre-Conference Seminar

Monitoring & Maintenance
Innovation and best practice in the maintenance of existing assets

13.00  Registration and refreshments
13.20  Welcome and introduction
13.30  KEYNOTE: The bridge monitoring and maintenance strategy of Transport Scotland
       Hazel McDonald, chief bridge engineer, Transport Scotland
14.00  Design for operation and maintenance
       In 2017 the SCI’s Steel Bridges Group held a workshop primarily aimed at main contractors involved in construction and maintenance operations as well as client organisations. The presentation will share the collated results of the industry survey and explain the direction of travel for future SBG guidance.
       Andrew Hodgkinson, director, Hewson Consulting
14.30  Structural health monitoring: An insight into SHM on the Queensferry Crossing & Forth Road Bridge
       Ewan Angus, major bridges director, Amey
15.00  Case study: Nene Bridge pier strengthening
       Dan Wood, project manager – major projects & Tim Henson, senior engineer, Skanska
15.30  Break for refreshments & networking
Case study: Humber Bridge hanger replacement and testing  
Andrew Arundel, head of engineering & infrastructure, Humber Bridge Board

16.30 PANEL: How competent are your inspectors? What can be done to improve inspector competency?  
Panellists:  
Bill Harvey, director, Bill Harvey Associates  
Kevin Dentith, chief engineer – bridges & structures, Devon County Council  
Joanna Bonnet, director, COWI

17.10 Forth Road Bridge: Main expansion joint replacement  
Angus Bruce, major bridge manager – forth road bridge, Amey

17.40 Closing remarks from the chair

17.45 Close of seminar

Tuesday 26 November 2019

Main Conference

The Future of Bridges  
Exploring innovation in the design, construction, monitoring and maintenance of bridges

07.30 Registration opens

07.45 Breakfast Briefing: A deep dive into the Heads of the Valleys A465 Gateway Arch (45 mins)  
Featuring contributions from:  
Rachel Mitchell, senior group engineer, Atkins  
Tom Osborne, director, Knight Architects

08.45 Opening remarks from the chair

08.50 KEYNOTE 1: The future of bridge engineering  
Ian Firth, director & consulting structural engineer, COWI

09.15 KEYNOTE 2: Addressing the climate emergency in our design and construction strategies  
Speaker tbc

09.40 Why did the Morandi Bridge collapse and what can we learn from it?  
Tullia Iori, professor of architectural engineering, University of Roma Tor Vergata

10.10 Learning the lessons of the Florida International University footbridge disaster  
Speaker tbc

10.40 Morning break for refreshments & networking

11.10 PANEL: Exploring materials and manufacture innovation: Driving sustainability and durability in bridge design  
Panellists:
Chris Hendy, technical director – bridge engineering, Atkins
David Knight, director, CAKE Industries

11.55  PANEL: Clients and bridge owners
Panellists:
Hazel McDonald, chief bridge engineer, Transport Scotland
Speaker to be confirmed, Network Rail

12.40  Lunch

14.00  Case study: Design and construction of the Northern Spire Bridge, Sunderland
Simon Fryer, technical director, Buro Happold
Tony Dempsey, director, Roughan & O’Donovan
Stephen McCaffery, Project Director, Farrans - Victor Buyck JV

14.30  PANEL: Exploring the bridge requirement of HS2
Panellists:
Speakers tbc

15.15  Update on the Design Manual for Roads & Bridges for structures standards
Neil Loudon, group manager – structures, Highways England

15.35  Afternoon break for refreshments & networking

16.05  Case study: East West Rail
Speakers tbc

16.35  Case study: Challenges in the construction and engineering of the Lille Langbro, Copenhagen
Davood Liaghat, head of bridge engineering & civil structures, Buro Happold
Simon Roberts, associate director, Wilkinson Eyre
Michael Thorogood, director, Eadon Consulting

17.05  Closing keynote: The future of bridge architecture
Martin Knight, managing director, Knight Architects

17.35  Closing remarks from the chair

17.40  Close of conference

18.00  Evening roundtable (sponsored)

EMAP 2019. The programme may change due to unforeseen circumstances. EMAP reserves the right to alter the venue and/or speakers.