The influence of technology continues to be at the forefront of construction and no less so than for concrete bridges. Iron bar to improve concrete performance was used in the 1870s (Homersfield Bridge Suffolk/Norfolk borders) and reinforcement with the Hennebique system (Chewton Glen Bridge, Hampshire) in 1902. The introduction of precast, prestressing, cantilever and incrementally launched sections, pushed the boundaries further. The exponential leap in computing power in the 21st century has enabled an explosion in digital technology in all areas of design and construction and, more recently, remote assessment and inspection.

The CBDG’s 27th Annual conference will discuss the influence of intelligent engineering on concrete bridges; a material with intrinsic versatility, design flexibility and, above all, natural durability.

The provisional programme is as follows, with more presentations to be added as speakers are confirmed.

- **HS2 Fulfen Wood Overbridge**
  - Ryan Leaver - AtkinsRéalis

- **Developing a Modular Precast Flexible Bridge Abutment**
  - Musa Chunge - Laing O’Rourke and Ramboll

- **Innovative monitoring technique using acoustic data collection device mounted on a drone and AI interrogate of results**
  - Tarv Gohal - Arcadis Consulting

- **Quantifying the embodied carbon in concrete structures based on local code constraints**
  - Lara Rueda - Mott Macdonald

- **Standard Health Monitoring**
  - Nabeel, Omar Nabeel - Rendel Ltd

- **Employment of Non-linear Analysis and Structural Verification Refinements to Minimise Strengthening of the Existing M6 Bromford Viaduct against Ground Movements from the HS2 Bromford Tunnel**
  - Stuart Moore and Thomas Wood - Mott Macdonald

Exhibition stand space is available.

For further information and booking, please see [www.cbdg.org.uk](http://www.cbdg.org.uk)