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Editorial

Elizabeth Wilson BSc, IEng, MICE
The Nichols Group, London, UK

Welcome to the August 2015 issue of *Civil Engineering*, the flagship journal of the *Proceedings of the Institution of Civil Engineers.*

This edition presents four forward-looking papers which cover the topical and controversial issues of innovative structural design, construction traffic and road safety, the future of sustainable drainage as a method of water management in the UK and the long-term impact of climate change on rivers.

The first of the four papers in this issue describes the design and construction of The News Building in London, sister building to The Shard at London Bridge (Adams *et al*., 2015). Its innovative cantilevered structure has been driven by the need to minimise disruption to the operational railway and bus depot below at this major London transport hub.

The design of the building was driven by the location of existing transport assets and constraints, leaving only 45% of the site plan available for foundations. This has led to some impressive design solutions, which include one of London's largest diameter piles, and an industry-leading technique using the UK's first pre-set three-directional core.

Our second paper describes the past, present and future of sustainable drainage systems or 'Suds' (Ashley *et al*., 2015), commencing with the evolution of this discipline from one primarily concerned with public health and safety to a multi-faceted area of expertise which presents huge opportunities for effective water management as a route to achieving wider benefits and amenity.

The third paper in this issue describes how Transport for London (TfL) has stepped up in response to the urgent and widely publicised need to address the incidents, and fatalities, on London's roads involving construction vehicles and cyclists (Davies and White, 2015). Cycling in London has more than doubled since 2000 with city-wide Mayoral campaigns actively promoting it as a transport method of choice.

However, this has seen a corresponding increase in the number of accidents, with an over-representation of incidents involving heavy goods vehicles (HGVs) servicing the many construction projects around the capital. In 2013, TfL published its construction logistics and cyclist safety, or 'Clocs', review and launched a series of industry events which assure industry commitment to making positive changes to tackle this issue.

Our final paper draws attention to the large-scale and long-term response of rivers to climate change, an area of study which is sometimes overlooked in favour of focussing on short-term effects (de Vriend, 2015). The variables which dictate river morphology are effectively modelled using commonly accepted techniques, but de Vriend contends that the effectiveness of these models must be doubted in the interpretation of long-term impacts.

Thanks go to everyone involved in producing this excellent and stimulating issue, in particular our authors for taking the time to capture their projects for the benefit of a wider audience. Please take time to consider whether your current projects would be of interest to the readership. *Civil Engineering* and its sister journals depend on the high-quality papers which are submitted for their success, and are always pleased to receive suitable papers from any discipline or location.

References

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