



## The Worshipful Company of Engineers

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Professor David M Johnson FEng PhD DIC BSc CEng FICE FIET FPWI

David is a practicing railway engineer, whose specialism is the computerised simulation of the train / infrastructure interface – making sure that there is 'just enough' space between trains and (for example) tunnels for safety but enabling our Victorian rail infrastructure to handle modern, large trains that it was not designed for.

He started his career as a civil engineer with British Rail in the 1970s, working for their Research department - initially on the Advanced Passenger Train (APT) but subsequently on track technology, which led him to working for the Association of American Railroads in Chicago, USA.

In 1989 he set up his own business (Laser Rail Ltd) bringing computerised analysis into the railways around the world, which led to his present (pre)occupation. Having sold his first business in 2007, he completed his PhD in 2008 (Mechanical Engineering) at Imperial College and joined City University, London leading the rail activities in their City Transport Hub where he undertook research into train pantograph / contact wire interaction and was a PhD supervisor.

He subsequently set up a new venture with his son (DGauge Ltd) which has capitalised on his PhD research, and is currently bringing new, digital simulation to the railways. DGauge is currently the largest provider of gauging services to the UK's rail industry and plays an active role in the introduction and ongoing cascade of most rolling stock presently in use or under design. David became a Fellow of The Royal Academy of Engineering in 2018.

[www.dgauge.co.uk](http://www.dgauge.co.uk)