



## MARK CRABTREE

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Principal Engineer  
Transportation Division

Mark Crabtree is a Principal Engineer in the Transportation Division at TRL and a Fellow of the Institute of Highway Engineers. He has an HNC in Applied Physics and Endorsements in Applied Optics and Further Electronics, as well as a BA in Mathematics and Computing (Open University). He is experienced in software development and has been responsible for the signal controlled junction design software programs OSCADY and TRANSYT and led the training programmes in the use of these products.

Mark has also previously worked in connection with the MOVA on-line signal control program which is installed at around 600 UK junctions. This has involved significant signal junction design work and contact with key people in the industry. He was also the lead investigator in four major Department for Transport sponsored projects investigating different aspects of signal controlled junction design.

Recent projects Mark has been involved with include re-writing the traffic signal control section of the Traffic Control Manual for the Ministry of Municipality and Urban Planning in Qatar; significant work with Transport for London regarding cyclist's use of traffic signals; as well as involvement in projects for Transport Scotland, Dublin City Council and the Safer Roads Foundation.

Mark has experience in providing expert witness evidence for public enquiries and accident analysis. He has also authored a number of published reports and presented papers at conferences in his specialism, both in the UK and Europe.

### Notable recent research and publications:

**2015** *A review of pedestrian walking speeds and time needed to cross the road* TRL PPR700

**2013** *On-street trials of communications technology to assist disabled pedestrians in crossing the road*  
Mark was involved in collating feedback and analysing the results of a trial pedestrian crossing on behalf of Transport Scotland

**2012** *Trials of farside pedestrian signals at a Puffin crossing* TRL PPR608