SIMON LANE

LCGI MCSFS AAE MIMI

Consultant
Investigations Group

Simon Lane is a Consultant in the Investigations Group at TRL, specialising in road accident reconstruction and providing consultancy advice. He is a member of the Institute of the Motor Industry, through which he is recognised as an Advanced Automotive Engineer, a Member of the Chartered Society of Forensic Sciences and he holds the Licentiateship of the City and Guilds of London Institute in Traffic Accident Investigation.

He previously served as a Police Officer for 30 years, where he gained 25 years' experience dealing with road traffic collisions. He specialised in collision investigation and was a member of the Forensic Collision Investigation Unit for eighteen years.

Simon has considerable experience gained during the investigation and reconstruction of road deaths involving single and multiple casualties. He has reconstructed collisions involving passenger carrying vehicles, large goods vehicles, agricultural vehicles, cars, motorcycles and bicycles, as well as pedestrian fatalities.

He has undertaken specialist training in collision investigation and other associated courses such as vehicle handling and dynamics, vehicle examination, light bulb examination, tachograph analysis (analogue & digital), photography and large goods vehicle air brake systems. He holds driving licence categories which include motorcycle, large goods and passenger carrying vehicles and holds Police class one driving certificates for cars and motorcycles.

He has extensive experience in Total Station Theodolite and GPS surveying and producing plan drawings. He has also been trained in 3D Laser Mapping, CAD drawing and 3D simulation and visualisation, including training in the use of the FARO Zone software suite. He is trained in and has carried out CCTV analysis using both reconstruction and photogrammetry techniques and using data from 3D scene surveys.

Simon has been accepted by the Court system as an expert witness; he has prepared written expert reconstruction reports which he has presented at all levels of the judiciary system and also has experience of giving concurrent evidence ('Hot-tubbing') in Court.

Notable recent publications:

2017 *Crush measurements obtained from two dimensional photographs using Photogrammetry* TRL PPR 813
Simon carried out research and testing of photogrammetry techniques and software, comparing the results with those obtained using 3D laser scanning and manual measurements, in terms of accuracy, cost and quality