



Paul Tydeman

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Collision Investigation

I am a specialist in the reconstruction of road traffic collisions, which includes the mechanical examination of all types of motor vehicles, the interpretation of physical evidence found at a scene, analysis of vehicle borne data from those vehicles, and driver behaviour.

I worked for an insurance company for 4 years, specialising in motor claims, before becoming a Police Officer in 1983. Following 6 years of general police duties, I joined the Traffic Department in 1989. I began my training in collision investigation in 1990 and have been working in this field since that time. From 2001, until my retirement in May 2016, I was the Senior Forensic Collision Investigator for the north east London area, with responsibility for the review and quality assurance of all incidents attended by a team of 8 collision investigators. In this capacity I have reviewed over 3000 collisions. I was also responsible for the training and mentoring of all new collision investigators in that unit.

As a collision investigator I attended several hundred fatal and serious injury collisions and have given evidence as an expert witness on numerous occasions in Civil, Criminal and Coroners Courts. I have also been called to assist other agencies and given evidence at discipline hearings and other boards of inquiry.

I am a very experienced vehicle examiner and have conducted numerous examinations on all classes of vehicle, both to assist in the investigation of serious collisions and also where the vehicle has been used to commit assaults. I have also been instructed by other agencies following workplace incidents and training accidents. I hold lorry and coach licences and regularly drive these types of vehicle, enabling me to comment specifically on vehicle handling and driver expectation.

I have worked on a number of high profile investigations and received several commendations, including a highly commended award from the prestigious Livia Award panel for professionalism and services to justice in the field of collision investigation.

Until my retirement from the Metropolitan Police Service (MPS) I was the lead for Incident Data Recorders (IDR) and vehicle borne technology. I was involved in the development of incident data recorders, working with manufacturers to develop the software and correct parameters for the device, and advising the Fleet Services engineering department. As part of this development, I was regularly involved in field testing, including crash testing; I am therefore familiar with the results produced by the devices. I was also responsible for the training of collision investigators, traffic supervisors, and other users of this technology.

I hold a Licentiate of the City and Guilds Institute (LCGI) in collision investigation and motor vehicle inspection. I am an Advanced Automotive Engineer (AAE) and a Member of the Institute of the Motor Industry (MIMI).

I have a commitment to education and promoting road safety. I have been an examiner for the Institute of Advanced Motorists for over 26 years, conducting advanced driving tests for car, motorcycle and commercial drivers.

I have regularly trained and given presentations to other agencies. I pride myself on my ability to present what can be a technical subject in a way that is understandable to all members of the audience.

I have an eye for detail, honed from reviewing every piece of evidence supplied to the collision investigators I supervised, and take the view that the detail obtained at a scene enables a thorough reconstruction of how the collision occurred. This, together with the experience developed over many years in this field, assists me in producing high quality reports. I have the ability to verbally explain what complex incidents in a straightforward and methodical way.

Specialities

In addition to expertise in Collision Investigation I have a particular interest in the analysis of data obtained from Incident Data Recorders (IDR). Because of my knowledge and experience in this area I was regularly instructed by the Independent Police Complaints Commission (IPCC) and other emergency services to either validate existing work or to carry out an independent analysis following driving incidents.

Qualifications

Collision Investigation

Forensic Collision Investigation - *City and Guilds*

Vehicle Examination

Vehicle Examination and Investigation Programme - *Institute of the Motor Industry*

Advanced Automotive Engineer (AAE) - *Institute of the Motor Industry*

Incident Data Recorder Analysis – *RSG, Continental and APD Artemis system*

Tachograph

Drivers' Hours Recording Equipment - Examination and Calibration Techniques - (Levels 1, 2 and 3) - *City and Guilds*

Scene Surveying and Photography

Leica – Collision Scene Surveying, and 3-Dimensional Laser Scanning

Authorised Photographer - Road Traffic Collision Investigators Photography Course

Impairment Testing

National Drug Influence Recognition and Field Impairment Testing Course

Professional Memberships

By both qualification and experience, I am a Licentiate of the City and Guilds Institute (*LGC/I*). I am a Member of the Institute of the Motor Industry (*MIMI*) and an Advanced Automotive Engineer (*AAE*). I am also a Member and Examiner for the Institute of Advanced Motorists.

Driving Licence

Full European A, B, C+E and D+E – clean

Institute of Advanced Motorists – Car, Motorcycle and Commercial Vehicle

Police Class 1 advanced Driver and Motorcyclist

Other associated training courses

Vehicle dynamics course at the Metropolitan Forensic Science Service (FSS) laboratory

Hydraulic systems and related subjects at Citroën UK

Supplementary restraint systems at Sandwell College, West Midlands

Brake roller testing at Bradbury Lifting, Braintree

Vehicle damage measurement and analysis at the Forensic Science Service (FSS), Huntingdon

National Autocrimes course, Hendon Police Driving School

Siemens VDO, incident data recorder (IDR) analysis

Siemens VDO, DTCoscope digital tachograph analysis

Application of biomechanics in real world collision investigation

Visual Statement basic diagramming and animation

RSG Jupiter data logger, Advanced Incident Analysis

APD Communications, Artemis Incident Data Recorder analysis

Forensic examination of lightbulbs (Sheffield Hallam University)

Advanced analysis of human factors for traffic crash reconstruction (ITAI)