

ANDREW CRAIG LCGI, CAE, ENG TECH.

A C C R E D I T E D A C C I D E N T R E C O N S T R U C T I O N I S T

C U R R I C U L U M V I T A E

SPECIALISED EXPERIENCE

- Forensic accident investigation and vehicle examination training and application over a 19 year period
- Analysis and interpretation of information gathered from road traffic accidents and/or incident scenes, the parties and vehicles involved and witnesses to accidents and/or incidents
- Download, analysis and interpretation of Crash Data from on-board vehicle computers.
- Technical examination of vehicles and the inspection / audit of commercial vehicle fleet operations
- Accident investigation / reconstruction, technical vehicle examination, vehicle safety audits and tachograph analysis for tour operators and insurance companies in 20+ countries worldwide
- Accident reconstruction cases involving occupant positioning, seat belt usage analysis, speed determination, time/distance studies, point of impact placement and computer-aided reconstruction
- Accident investigations involving detailed witness interviews and the taking of extremely detailed witness statements
- Investigations of vehicular accident causes relating to mechanical malfunctions / component failures
- Motor vehicle/pedestrian collision analysis
- Site surveying and preparation of video animation of motor vehicle accidents
- Commercial Transport Management & Operations (both passenger & freight operations).
- Appointed by DFF International Ltd. UK to provide Road Traffic Collision Investigation and Post Accident Vehicle Examination for the United Nations subject to Contract PD/CO235/05, on a 24 hour per day, 365 day per year international call out basis

EXPERT WITNESS EXPERIENCE

- Investigated and reported on a large number of cases and recognised as an expert by the Judiciary throughout the United Kingdom, Civil, Criminal & Coroner's Courts (including the Central Criminal Court, London – The Old Bailey) and also in the USA and France
- Investigated and reported on cases in British Columbia since January 2008 and qualified as an expert crash reconstruction witness in the Supreme Court of British Columbia
- Expert witness testimony presented in criminal, civil and coroners courts at all levels on many occasions
- Single Joint Expert Witness May 1999 - The Law Society, London, UK, (Training to permit joint appointment by lawyers acting for both parties in a dispute to investigate and report to the Court)

ACADEMIC BACKGROUND

- * Successfully completed Standard & Advanced Accident Investigation / Reconstruction Training courses at No. 6 Region Police Training School, Wiltshire, UK.
- * Successfully completed the full day City & Guilds of London Institute (UK) accreditation examination designed to qualify experienced accident investigators / reconstructionists and awarded the City & Guilds of London Institute Certificate in Road Accident Investigation.
- * Awarded Licentiate of the City & Guilds of London Institute (LCGI) a UK foundation degree level qualification
- * Successfully completed a BTEC Higher National Certificate course, including lectures, practical exercises and examination components to qualify as a Traffic Vehicle Examiner and awarded the Higher National Certificate
- * Certificated Automotive Engineer (CAE)
- * Qualified as an Engineering Technician -Engineering Council UK (Eng Tech)
- * Successfully completed UK Government approved CRFP (Council for the Registration of Forensic Practitioners) accreditation procedure for expert witnesses and awarded certificates of accreditation in two separate disciplines:-
 1. Specialty Road Transport Investigation (Collision Investigation)
 2. Specialty Road Transport Investigation (Vehicle Examination)

Revalidated January 2009

* Various international conferences seminars, training courses and lectures

PROFESSIONAL WORK EXPERIENCE

- CEO of Wayman Accident Investigation Inc. dba Crashtams BC 2008
- Director of Wayman Consultancy Ltd., United Kingdom 2007
- Partner in Wayman Consultancy, United Kingdom 2002
- Proprietor of AC Consulting (Bridport) Ltd., UK 1999
- Senior Accident Investigator, Dorset Police AI Unit, UK 1995
- Specialist Accident Investigator, Dorset Police, UK 1990
- Specialist Traffic Patrol Officer, Dorset, UK 1987
- Patrol Officer, Dorset Police, UK 1977
- Police Officer, Sussex Police, UK 1973

TESTING PERSONALLY PERFORMED:

- Vehicle skid testing, including light passenger and heavy commercial vehicles
- 'Critical speed' vehicle testing with correctly and incorrectly inflated tires.
- Motorcycle slide testing to determine pre-loss of control speed
- Vehicle brake testing, including light passenger and heavy commercial vehicles using Vericom VC3000 & other accelerometers
- Testing of vehicles with partially disabled foundation braking systems and partially disabled anti-lock braking systems

- Vehicle slide testing to determine initial velocity, including vehicles dropped from a wrecker using exploding release bolts to simulate overturning vehicles and vehicles sliding on their roof
- Bicycle brake performance testing to establish the force required to raise the rear wheel in accident scenarios and front / rear wheel braking efficiencies
- Vehicle acceleration and performance testing, including light passenger and heavy commercial vehicles
- Testing to determine the causes of “wrong footing” and unintended acceleration by drivers of vehicles fitted with automatic transmissions
- Testing to determine the areas that are invisible to drivers of large commercial vehicles
- Testing to determine speed from pedestrian projection post vehicle contact, including tests with dummies clothed in various materials
- Pedestrian walking / running speed assessment
- Testing to determine the time taken by drivers to scan left, right and 180 degrees at busy intersections
- Motorcycle and pedestrian conspicuity testing in daylight and during the hours of darkness
- Longitudinal & lateral acceleration rates of vehicles accelerating from rest and turning at intersections

LITERATURE:

- Author of articles in Contact magazine, a UK publication, including articles on Single Vehicle Type Approval, Pre-Trial Disclosure of Technical Evidence, the functions of the UK Parliamentary Advisory Council for Transportation Safety and the Bosch Crash Data Retrieval system and training
- Author of an Article in Impact, the journal of the Institute of Traffic Accident Investigators, on various vehicle testing performed during a series of tests at a field day organized by Mr. Andrew Craig and Mr. Len Wayman for the ITAI during 1998. Mr. Craig and Mr. Wayman also designed, arranged and conducted the tests

ADDITIONAL EXPERIENCE:

- * Roadside & Evidential Alcohol Testing – since January 1975

- * Hand Held Speed Detection Equipment Operation – since March 1987 (radar and laser devices)
- * In Vehicle Speed Detection System Operation – since August 1987 (Including VASCAR, Police Pilot & Speed Marshall)
- * Class 1 Police Advanced Car Driving – since May 1988
- * In Car Video Systems (ProVida) since Summer 1990
- * HGV Class 1 Driving (C + E) – since July 1992
(Commercial Heavy Goods Vehicles – all classes)
- * PCV Class 1 Driving (D + E) – since September 1992
(Commercial Passenger Carrying Vehicles – all classes)
- * Certificate of Professional Competence (UK Commercial Transport Management Qualification) -
Module A (Core) – June 1994
Module B (National Freight Transport Operations) – June 1994
Module C (National Passenger Transport Operations) – December 1994
- * Forensic Vehicle Criminology – September 1993, Metropolitan Police, London, UK. (Examination & Identification of Stolen Vehicles & Plant)
- * Computerised Total Station Surveying Systems - Since Nov/1994 (Survey operation & software applications [Sokkia, Top Con and South Survey])
- * Land Survey Systems software operation since October 1994
- * Vehicle Crush Damage Analysis to determine impact speeds from collision damage– since March 1997
- * Computer Aided Design / Draughting – since June 1997
(AutoCad, City & Guilds of London Institute Certificate)
- * HOSTYDS Operation (Hollow spike tyre deflation systems – “Stinger”) – since 1997
- * Forensic Tachograph Analysis, Calibration & Law – since October 1990 (City & Guilds of London Inst. Cert. Level 2 – June 1998)
- * Computerised Collision Animation Software – since January 2000
- * Digital Photography Course ITAI, UK – June 2007
- * Bosch / Vetronix Crash Data Retrieval Course – Qualified as both Technician and Analyst – March 2008, Winnipeg, Manitoba
- * Visual Statement Basic /Advanced Computer Diagramming & Animation Course – April 2008, Tigard, Oregon, USA
- * “Human Factors in Traffic Crashes” Course instructed by Jeffrey W. Muttart,
October 2008, Criminal Justice Training Centre, Seattle, WA., U.S.A

- * Crash Zone Computer Diagramming & Animation Course, December 2008 ,Kelowna BC.

PROFESSIONAL ASSOCIATIONS

- * Member of the Institute of Traffic Accident Investigators (MITAI)

History:

March 1990 - Joined ITAI as an Affiliate member

Sept. 1995 – successful application after assessment of sample reports by grades assessment committee for transfer to full membership

1997 – 2001 - ITAI Area Representative [Southern England]

2004 - 2007 - member of ITAI Council of Management

2005 –2007- ITAI liaison officer to PACTS [UK Parliamentary Advisory Council for Transportation Safety]

2006 –2007, Member of the Rail Safety working party of PACTS

- * Member of the Institute of the Motor Industry (MIMI)
- * Member of the Canadian Association of Technical Accident Investigators and Reconstructionists
- * Member of the Institute of Leadership and Management (MInstLM)
- * Member of the Society of Automotive Engineers