

# **Curriculum Vitae**

**Steven Parkin**

**BSc (Hons), CEng MIMechE, MAE, MITAI**

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**Personal Details**

<b>Name</b>	Steven PARKIN	<b>D.O.B.</b>	6 January 1964
<b>Address</b>	1 Dover Avenue Worcester WR4 0LA	<b>Status</b>	Married
<b>Tele/fax</b>	01905 757187		
<b>School</b>	Harrogate Grammar School		
	7 'O' levels		
	4 'A' levels (Maths, Chemistry, Physics, General Studies)		
<b>University</b>	Mechanical Engineering, Birmingham University, England		

**Experience**

I am a Bachelor of Science with an Honours degree in Mechanical Engineering [BSc(Hons)], obtained from the University of Birmingham. I am a Chartered Engineer [CEng], and a member of the Institution of Mechanical Engineers [MIMechE]. I am an elected member of the Association for the Advancement of Automotive Medicine, and an accredited member of the Academy of Experts [MAE], and the Institute of Traffic Accident Investigators [MITAI]. In addition, I am on the Law Society Panel of Expert Witnesses, and I am CPR/SJE compliant.

I was employed by the Accident Research Centre at the University of Birmingham from May 1987, and I was the Deputy Director of the Centre from December 1988 until July 1996. I am currently a full time accident reconstruction and seat belt Expert Witness.

At the Centre I was involved in the examination of crashed vehicles that had been involved in accidents in the West Midlands and West Mercia Police regions. This work involved the investigation and interpretation of the causation of occupant injury, based on the fundamentals of occupant kinematics and injury thresholds. Injury causation mechanisms to individual body regions by injury type was a significant part of this work. The severities of the accidents ranged from damage only to fatalities. I have lectured on aspects of accident investigation, including the forensic examination of seat belts, and accident reconstruction, to the Police and other accident reconstruction professionals, such as the Institute of Traffic Accident Investigators.

I have also been involved in 1200 or so accident reconstructions (of cars, pedestrians, motorcycles, cyclists and Goods vehicles), involving vehicle and scene examinations; calculation of speeds of vehicles from skid marks, debris distribution, vehicle damage, etc; establishing seat belt use for contributory negligence, and others. I have given evidence on numerous occasions for civil and criminal cases, and at inquests. I operate an accident reconstruction/expert witness practice, which was established in 1989.

I am trained in giving evidence and report writing (Academy of Experts).

## Publications

### **Restrained front seat car occupant fatalities - the nature and circumstances of their injuries**

1. 34<sup>th</sup> Proceedings, Association for the Advancement of Automotive Medicine, pp 139-162, Scottsdale, Arizona, Oct. 1-3, 1990.
2. Accident Analysis & Prevention. Volume 24, Number 3, pp 307-315, June 1992.

### **Restrained occupants on the non-struck side in lateral collisions**

1. 35<sup>th</sup> Proceedings, Association for the Advancement of Automotive Medicine, pp 119-132, Toronto, Oct 7-9, 1991. **[Voted 'Best Scientific Paper 1991' by AAAM]**
2. Proceedings - 13<sup>th</sup> International Experimental Safety Vehicles Conference, pp 712-720, Paris, Nov 4-7, 1991.
3. FISITA, London, 1992.
4. Accident Analysis & Prevention. Volume 25, Number 2, pp 147-152, April 1993.

### **The urban rollover; characteristics, injuries, seat belts and ejection**

Proceedings - 13<sup>th</sup> International Experimental Safety Vehicles Conference, pp 741-747, Paris, Nov 4-7, 1991.

### **An assessment of real world steering wheel intrusion characteristics and their implications for head and face injuries to restrained drivers in frontal impacts**

Proceedings - International Conference on the Biomechanics of Impacts (IRCOBI), pp 373-384, Verona, Sept 9-11, 1992.

### **Effectiveness and limitations of current seat belts in Europe**

Proceedings of the International Conference on Air Bags and Seat Belts: Evaluation and Implications for Public Policy, Montreal, Canada, October 18-20, 1992. Proceedings Chronic Diseases in Canada, Vol. 14, No 4, pp 38-46.

### **Types and severities of serious injury in frontal collisions**

12<sup>th</sup> World Congress of IAATM, Helsinki, June 1992.

### **A case for laminated glazing for future vehicles**

BSI committee, London 1993.

### **A case for Security Glazing**

37<sup>th</sup> Proceedings, Association for the Advancement of Automotive Medicine, pp 405-418, San Antonio, Texas, Nov 4-6, 1993.

### **How Drivers Sit in Cars**

1. 37<sup>th</sup> Proceedings, Association for the Advancement of Automotive Medicine, pp 375-388, San Antonio, Texas, Nov 4-6, 1993. **[Voted 'Best Scientific Paper 1993' by AAAM]**
2. Accident Analysis & Prevention. Volume 27, Number 6, pp 777-783, 1995.

### **Intelligent Restraint Systems - What Characteristics Should They Have?**

Advances in Occupant Restraint Technologies. AAAM/IRCOBI joint session proceedings, pp 113-126, Lyon, France, Sept 22, 1994.

### **Rear end collisions and seat performance - to yield or not to yield**

39<sup>th</sup> Proceedings, Association for the Advancement of Automotive Medicine, pp 231-244, Chicago, Oct 16-18, 1995.

**Spinal injuries in car collisions**

40<sup>th</sup> Proceedings, Association for the Advancement of Automotive Medicine, pp 19-31, Vancouver, Canada, Oct 7-9, 1996.

**Injuries caused by seat belt loads to drivers and front seat passengers**

40<sup>th</sup> Proceedings, Association for the Advancement of Automotive Medicine, pp 45-61, Vancouver, Canada, Oct 7-9, 1996.

**How people sit in cars: Implications for driver and passenger safety in frontal collisions - the case for smart restraints**

40<sup>th</sup> Proceedings, Association for the Advancement of Automotive Medicine, pp 77-91, Vancouver, Canada, Oct 7-9, 1996.

**Head Restraint positioning and occupant safety in rear impacts: the case for smart restraints**

Proceedings - International Conference on the Biomechanics of Impacts (IRCOBI), pp 137-152, Dublin, Ireland, Sept 11-13, 1996.

**How people sit in cars: Implications for driver and passenger safety in lateral collisions - the case for advanced restraints**

Proceedings - International Conference on the Biomechanics of Impacts (IRCOBI), pp 321-336, Dublin, Ireland, Sept 11-13, 1996.

**Seat belts: what they do and what they leave behind**

Proceedings – Institute of Traffic Accident Investigators Conference, pp149-158, Telford, Nov 15-16, 1997.