

## **CURRICULUM VITAE OF PETER B. WILLIAMSON, MASc, P.Eng.**

### **QUALIFICATIONS**

- Master of Applied Science, Mechanical Engineering, University of British Columbia, 1991.
- Bachelor of Science (Honours), Mechanical Engineering, Queen's University, 1989.
- Registered with Professional Engineers Ontario since August 2000, previously registered with the Association of Professional Engineers and Geoscientists of British Columbia, March 1994 to December 2000.

### **AFFILIATIONS**

- Canadian Association of Technical Accident Investigators and Reconstructionists (CATAIR)
- Society of Automotive Engineers (SAE)
- National Association of Professional Accident Reconstruction Specialists (NAPARS)

### **EMPLOYMENT HISTORY**

June 2000 to present	<i>Engineer / Principal</i>	Williamson Forensic Consulting, Ottawa, Ontario
1994 to June 2000	<i>Senior Project Engineer</i>	MacInnis Engineering Associates, Vancouver BC
1991 to 1994	<i>Engineer in Training</i>	MacInnis Engineering Associates, Vancouver BC

### **SUMMARY OF EXPERIENCE**

- Specializing in motor vehicle collision analysis since 1991.
- Nine years (1991 to 2000) at MacInnis Engineering in Vancouver, specializing in motor vehicle collision analysis.
- Since 2000 have been specializing in motor vehicle collision analysis in the Ottawa area.
- Over 1500 cases investigated, predominantly motor vehicle cases, with additional experience in slip-and-fall, product liability and failure analysis.
- Qualified as an expert witness in over 35 different cases, including both civil cases and criminal cases, working for both the defense and the plaintiffs.
- Qualified as an expert in courts in Ontario, British Columbia, New Brunswick and Newfoundland, and have given expert deposition testimony in California.
- First hand experience in staging and analyzing high-speed and low-speed vehicle-to-vehicle collisions, and co-author of related technical publication.
- Prior to 2000 involved in the testing, validation, and refinement of PC-Crash collision reconstruction software, and providing technical support to other collision reconstructionists from across North America.

### **RELATED TECHNICAL PUBLICATIONS**

- Bailey, M.N., Lawrence, J.M., Fowler, S.J., **Williamson, P.B.**, Cliff, W.E., and Nickel, J.S. (2000) "Data from Five Staged Car to Car Collisions and Comparison with Simulations" (SAE # 2000-01-0849). Accident Reconstruction: Analysis, Simulation and Visualization (SP-1491) 361-384. Warrendale, PA: Society of Automotive Engineers.
- MacInnis, D.D., **Williamson, P.B.** and Nielsen, G.P. (1995) "Sun Position and Twilight Times For Driver Visibility Assessment" (SAE # 950359). Accident Reconstruction: Technology & Animation V (SP-1083), 263-286. Warrendale, PA: Society of Automotive Engineers.

- Siegmund, G.P. and **Williamson, P.B.** (1993) “Speed Change ( $\Delta V$ ) of Amusement Park Bumper Cars” Proceedings of: Canadian Multidisciplinary Road Safety Conference VIII, 299-308. Saskatoon, SK: Transportation Centre, University of Saskatchewan.

## OTHER PUBLICATIONS

- **Williamson**, Peter, “Shedding Light on Pedestrian Visibility at Night” article in OIAA “Without Prejudice” Magazine, October 2001, Volume 66 Number 2.
- **Williamson**, Peter, “Understanding Low Speed Collisions” article in OIAA “Without Prejudice” Magazine, November 2000, Volume 65 Number 3.

## COURSES AND PRESENTATIONS ATTENDED

October 2010 – “Human Factors for Traffic Crash Reconstruction” 1 week course taught by Jeffrey Muttart, Amherst, Massachusetts.

April 2009 – PC-Crash Advanced Users Course, Toronto, Ontario

April 2008 – SAE 2008 World Congress, Detroit, Michigan. Attended Accident Reconstruction and Occupant Protection technical paper presentations.

January 2008 – Crash Data Retrieval (CDR) system technician course, Toronto, Ontario.

April 2006 – SAE 2006 World Congress, Detroit, Michigan. Attended Accident Reconstruction and Occupant Restraints technical paper presentations.

April 2005 – SAE 2005 World Congress, Detroit, Michigan. Attended Accident Reconstruction and Occupant Protection technical paper presentations.

August 2003 – CATAIR Annual Conference, Burlington, Ontario. Attended at crash tests and technical presentations.

May 2003 – Crash Data Retrieval (CDR) system Operator’s Certification Course, Newmarket, Ontario.

March 2001 – SAE 2001 World Congress, Detroit, Michigan. Attended Accident Reconstruction and Vehicle Safety technical paper presentations.

August 1999 – Participated in PC-Crash and PC-Rect Advanced Workshop, Vancouver, BC.

February 1999 – World Congress on Whiplash Associated Disorders, Vancouver, BC. Attended technical presentations on human subject testing in low speed collisions and seat and head restraint design.

October 1996 – SAE Accident Investigation Practices Committee - Under-Ride Crash Tests, Vancouver, BC. Attended a series of staged under-ride collisions and participated in discussion of results and analysis of the collisions.

August 1996 – SAE Low Speed Collision TOPTEC, Vancouver, BC. Attended presentations and assisted with low speed collision demonstration.

June 1995 – PC-Crash Workshop. Attended a workshop on the use of the PC-Crash and PC-Rect software.

February 1995 – SAE International Congress and Exposition, Detroit, Michigan. Attended presentations and paper presented by co-author.

April 1992 – Commercial Vehicle Air Brakes Course. Attended course on the design and examination of commercial vehicle air brakes systems.

## SPEAKING ENGAGEMENTS

November/December 2008 – Invited to speak at two seminars for the Insurance Institute of Ontario, regarding accident reconstruction and airbag modules, with a local audience and also internet broadcasting of the presentation to other Ontario locations.

February 2008 – Invited to speak to about 30 insurance adjusters from various companies at a seminar about downloading data from airbag modules.

February 2005 – “Litigating Personal Injury Damages”, Toronto, Ontario, invited to speak at conference.

September 2004 – Invited to speak to Thousand Island Chapter of Ontario Insurance Adjusters Association on Airbag Module Downloads, Kingston, Ontario.

March 2003 – “Admissibility of Forensic and Demonstrative Evidence for Insurance Claims”, Toronto. Conference co-chair and speaker.

February 2002 – OIAA “Claims 2002” conference, Toronto. Invited to speak at conference.

October 2001 – Invited to speak to Ottawa Valley Adjusters Association on “New Developments in Collision Reconstruction”, Ottawa, Ontario.

November 2000 – Invited to speak to Thousand Island Chapter of Ontario Insurance Adjusters Association on “New Developments in Collision Reconstruction”, Kingston, Ontario.

March 1999 – Bryan and Company, Edmonton, Alberta. Invited to speak to approximately 75 insurance adjusters and lawyers on the technical aspects of low speed collision reconstruction, and performed low speed collision demonstration.

April 1998 – Code Hunter Whitman, Calgary, Alberta. Invited to speak to approximately 170 insurance adjusters and lawyers on the technical aspects of low speed collision reconstruction, and performed low speed collision demonstration.

September 1997 – WATAI Annual Meeting and Crash Test, Bremerton, WA. Attended meeting and crash test, and presented analysis of the collision to attendees using PC-Crash.

1996 to 1998 – ICBC Accident Reconstruction Presentations. Involved in presentations at many Insurance Corporation of British Columbia Claim Centres, presenting on low speed collision reconstruction, seat belt use assessment and use of PC-Crash. Some presentations also involve low speed vehicle collision demonstrations.

(revised May 2011)