JAMES J BOWLER
PROJECT ENGINEER
TRANSPORTATION GROUP

BEng, Mechanical Engineering Co-op 1995
Registered Professional Engineer

James Bowler conducts technical investigations, primarily those involving motor vehicle collision technical investigation and reconstruction.

Since joining the firm in 1995, Mr. Bowler has been involved in over 2000 technical investigations to date, including severity assessment, collision sequence, seat belt use and effectiveness, vehicle speed analysis, mechanical failure, wheel separation, damage match, and fraud investigation. Also conducts research in areas such as bumper performance in low speed motor vehicle collisions and tire performance during locked wheel braking. He has participated in over 223 series of crash tests which involved over 2500 individual crash tests.

Prior to joining MEA, Mr. Bowler worked as a co-op student in the fields of mining process research, natural gas plant engineering, solar energy equipment manufacturing, heavy oil research, and the design of building mechanical systems.

Areas of Specialization

- Seat belt investigation
- Collision reconstruction
- Low speed collisions
- Contract collision testing

Select Publications

Heinrichs BE, Allin BD, Bowler JJ, Siegmund GP (2003). Vehicle speed affects both the pre-skid braking kinematics and the average tire/roadway friction. Accident Analysis and Prevention, online doi: 10.1016/j.aap.2003.08.002.

Heinrichs BE, Lawrence JM, Allin BD, Bowler JJ, Wilkinson CC, Ising KW, King DJ, Ptucha SJ (2001). Low-speed impact testing of pickup truck bumpers (2001-01-0893). Accident reconstruction: Crash analysis (SP-1572), pp. 187-209. Warrendale, PA: Society of Automotive Engineers.

Goudie DW, Bowler JJ, Brown CA, Heinrichs BE, Siegmund GP (2000). Tire friction during locked wheel braking (2000-01-1314). Accident reconstruction: Analysis, simulation, and visualization (SP-1491), pp. 479-490. Warrendale, PA: Society of Automotive Engineers.

Cliff WE, Bowler JJ (1998). The measured rolling resistance of vehicles for accident reconstruction (980368). Accident reconstruction: Technology and animation VIII (SP-1319), pp. 251-265. Warrendale, PA: Society of Automotive Engineers.

King DJ, Bowler JJ, Ptucha SJ (1997). Determination of bumper characteristics using prototype moving barriers (970956). Accident reconstruction: Technology and animation VII (SP-1231), pp. 211-239. Warrendale, PA: Society of Automotive Engineers.

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