



INJURY BIOMECHANICS & ACCIDENT RECONSTRUCTION



SEAT BELT USE AND EFFECTIVENESS IN CATASTROPHIC COLLISIONS

Since 1988 Jeff Wheeler has analyzed occupant dynamics, injury biomechanics, and seat belt use and effectiveness in high-speed collisions. He has conducted research and published on forensic evidence of collision-induced markings on seat belts, seat belt-related injury mechanisms, and injuries to children and adults in rollovers.

Jeff and the team at VSI can help answer critical forensic questions including:

- What restraint systems (seat belts and airbags) were available to the occupants?
- Were the occupants wearing their seat belts at the time of the accident?
- Were the seat belts worn properly?
- Were age/size-appropriate child safety seats used and properly secured?
- When, where, and how did the injuries occur?
- What injuries would have been eliminated or mitigated if the occupant was belted?



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