



INJURY BIOMECHANICS & ACCIDENT RECONSTRUCTION



PEDESTRIAN ACCIDENT RECONSTRUCTION

Pedestrian accident reconstruction involves complex issues that Vector Scientific, Inc. is uniquely qualified to analyze using our combined expertise of accident reconstruction and injury biomechanics. Accident reconstruction methods are used to analyze speed, visibility, reaction time, and vehicle handling/braking while biomechanics input regarding walking speed, body position/posture, and injury mechanics completes a robust analysis of the vehicle and human impact dynamics involved in pedestrian accidents.

Pedestrian accident-related deaths have increased more than 50% nationwide and nearly 90% in our home state of Colorado over the past decade. The majority of these deaths occur in urban areas and at night, and a substantial number involve pedestrians with significant blood alcohol concentrations. In recent years the automotive industry has made good progress on front crash prevention technology that recognizes and reacts to pedestrians and as these are implemented there is hope these systems will reduce the incidence of pedestrian accidents and related deaths and injuries.



JEFF WHEELER, MS
PRESIDENT
INJURY BIOMECHANICS



ZACH WEIMER, MS, PE
SENIOR ENGINEER
ACCIDENT RECONSTRUCTION



J. MICHIO CLARK, PHD
BIOMECHANICAL ENGINEER
INJURY BIOMECHANICS