



## INJURY BIOMECHANICS & ACCIDENT RECONSTRUCTION



### HEAD INJURY BIOMECHANICS

The Biomechanics Team at Vector Scientific, Inc. (VSI) continues to research head injuries and apply the latest biomechanical data to assess concussion risk in sports/recreation and motor vehicle collisions. In July 2022 Michio Clark presented ***“Development of Refined Injury Corridors for Evaluating Concussion Probability Using Maximal Principal Strain and Directional Sensitivity”*** at the 11th European Solid Mechanics Conference Mini-Symposia on Mechanics of Impact Trauma at the National University of Ireland. In August 2022 Jeff Wheeler presented ***“Rotational Head Acceleration in Rear-End Motor Vehicle Collisions and Associated Concussion Risk”*** at the North American Congress on Biomechanics in Ottawa. These follow presentations by Michio and Wade Baker on head kinematics in rear-end impacts at the NHTSA Workshop on Human Subjects for Biomechanical Research in 2020 and 2021.

VSI remains at the forefront of biomechanical research and forensic analysis of head injuries including mild Traumatic Brain Injury (mTBI/concussion), Traumatic Brain Injury (TBI), and chronic brain injuries.



**JEFF WHEELER, MS**  
PRESIDENT  
INJURY BIOMECHANICS



**J. MICHIO CLARK, PHD**  
BIOMECHANICAL ENGINEER  
INJURY BIOMECHANICS



**WADE BAKER, MS**  
BIOMECHANICAL ENGINEER  
INJURY BIOMECHANICS  
ACCIDENT RECONSTRUCTION

4620 TECHNOLOGY DRIVE, UNIT 600, GOLDEN, CO 80403  
303.697.9977 INFORMATION@VECTORSCIENTIFIC.COM  
WWW.VECTORSCIENTIFIC.COM