

# Collision Magazine Volumes

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## 2019

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- Alan Moore: Vehicle Speed From Sound
- Annika Kortman: Crash Behaviour In A Crash Comparison: The New Biofidelic Dummy in Different Scenarios Of Accidents Involving Passenger Cars And Pedestrians
- Wesley Vandiver, Robert Anderson: Crash-ol-o-gy: Introducing Toyota Vehicle Control History
- W. R. Rusty Haight, Robert Anderson: Toyota Gen1 EDR Event Recording Logic
- Nathan Rose, Neal Carter, Martin Randolph, William Bortles: Motorcycle Accident Reconstruction: Incorporating EDR Data from the Struck Vehicle
- Weston Brown, Robert Anderson: Tesla EDR Case Studies & Reconstruction Techniques
- Shawn Harrington: Identifying Infotainment Systems for Use in Accident Reconstruction
- Lawrence Wilson, Dr. Kevin Schrum: Guardrail Crash End Terminal Reconstruction and Analysis
- W. R. Rusty Haight, Robert Anderson: CASE PROBLEM: Toyota Gen1 EDR Event Recording Logic
- W. R. Rusty Haight, Robert Anderson: SOLUTION: Toyota Gen1 EDR Event Recording Logic

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- Wes Vandiver, Robert Anderson: Crash-ol-o-gy
- Wes Vandiver, Robert Anderson: Vehicle System Forensics for Crash Reconstruction
- Adam Cybanski: Dash Camera Video Velocity Analysis
- Edward C. Fatzinger Jr.: Power Loss Issues Related To EDR Data In 2013-2017 Kawasaki Ninja 300 And Zx-6R Motorcycles
- Jai Singh: The Impact Of Nonlinear Boundary Geometry Considerations In Regards To Residual Damage Based Model Coefficients, Equivalent Barrier Speed And Internal Work Absorbed
- Joseph Weadon: Small Unmanned Aircraft Systems Photogrammetry vs. Total Station
- Erik Carlsson: My Turn at the Wheel: " Driver's Early Arrival at the Scene Caused Accident?"
- Nathan Rose, William Bortles, Neal Carter: Motorcycle Accident Reconstruction: Applicable Error Rates for Struck Vehicle EDR-Reported Delta-V
- Craig Proctor-Parker: Documenting A High Speed, Rear End, Partial Overlap, Crash Test Of A Large Sedan & Stationary Commercial Trailer

## 2018

### Collision Volume 12, Issue 2 (2018)

- Robert D Anderson, Michael Rosenfield, Russell Anderson: Electric Golf Cart and Scooter Acceleration, Hard Brake, and Stability Testing
- Robert D Anderson: Estimated Likelihood Of Obtaining The Non-Deployment Event Of Interest And Pre-Crash Data Guide For The Toyota Gen1 Airbag Control Modules
- Tim Austin: Revisiting Caterpillar ECMs
- Shanon R. Burgess, William F. Messerschmidt: Forensic Methods for Dealing with Damaged ACM/ECM Components
- Bobby J Mullinax: Reconstruction From Body Worn Camera Videos
- Jai Singh: Residual Damage Based Accident Reconstruction: Accounting For Mismatched Residual Damage Profiles
- Thomas Barth: A Summary of Recent NTSB Highway Crash Investigation Products
- W. R. Rusty Haight: Crash Data Access and Authority: Consent, Court Orders, and more

## 2017

### Collision Volume 12, Issue 1 (2017)

- Michael DiTallo, Brent Munyon, Thomas Green, Eric Paul, Kelley Adamson, Mike Merolli, Kevin Vosburgh, Billy Cox, Robert Anderson, David Hallman, Eric Moody, and James Whelan: Three Different Methodologies for Determining the Drag Factor for Motorcycles Sliding on Their Sides
- Peter J. Leiss, Steven Becker and Gary Derian: Tire Friction Comparison of Three Tire Types in Warm and Near Freezing Temperatures
- Erik Carlsson: My turn at the wheel: a dirty trick to achieve the desired result, or what?
- Michael DiTallo, Eric Paul, Kelley Adamson, Thomas Green, Mike Merolli, Brent Munyon, Kevin Vosburgh, Billy Cox, Eric Moody, Robert Anderson, James Whelan and David Hallman: Motorcycle Center of Gravity Data: Methodology and Reference
- Nathan Rose: Fracture Energy Calculations for Wooden Utility Poles
- Luis Flores: Autonomous Vehicle Technology: Looking One, Five, and Fifteen Years into The Future. An Accident Reconstructionist's Perspective
- Thomas Green, Michael DiTallo, Eric Paul, Kelley Adamson, Mike Merolli, Brent Munyon, Kevin Vosburgh, Billy Cox, Robert Anderson, David Hallman, Eric Moody and James Whelan: 3D Laser Scanners in Crash Testing
- Chad McFadden: Fast approach to building solid cases: laser scanning provides important benefits for investigator
- David Hallman, Robert Anderson, Billy Cox, Kevin Vosburgh, Kelley Adamson, Thomas Green, Mike Merolli, Brent Munyon, Eric Paul, Eric Moody, James Whelan, and Michael DiTallo: Evaluation of the MIDE Slam Stick as a Low-Cost Accelerometer and Data Acquisition System for Vehicle Skid Testing

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### Collision Volume 11, Issue 2 (Fall 2016)

- Nathan A. Rose, Neal Carter, and Gray Beauchamp: The Accelerations Present during the Trip Phase of a Soil-Tripped Rollover Crash - An Update

- Erik Carlsson: My Turn At The Wheel: Principal Direction of Force Real or Abstract?
- 2106 ARC-CSI Crash Team Boot Camp: Gary Davis, Andre Doria, Michael Morris, and Randy Eldridge: Impact Speed Determination in a Head-On Crash using Bayesian Networks
- David M. Hallman, Robert D. Anderson, Wesley Grimes, Michael DiTallo, Kenneth Salisbury and Kevin Vosburgh: Evaluation of the MIDE Slam Stick X As a Low- Cost Accelerometer and Data Acquisition System for Vehicle Crash Testing
- Rudy Limpert, Ph.D.: Low-Speed Rear-End Crash Analysis MARC1 Use in Test Data Analysis and Crash Reconstruction
- Robert D. Anderson, Michelle R. Hoffman, Russell L. Anderson and Michael Rosenfield: Piston-Type Bumper Isolator Compression versus Delta-V in Bumper-to-Barrier and Bumper-to-Bumper Impacts
- Nathan Rose and Neal Carter: The Longevity of Scene Evidence from a Rollover A Case Study
- Michael DiTallo, Thomas Green, Wes Grimes, Ken Salisbury, Brent Munyon, Tom Lawson, James Whelan, Eric Moody, Kevin Vosburgh, and Eric Paul: Motorcycle Crash Testing: Advanced Boot Camp Was Born
- W. R. Rusty Haight: Evaluating Crash Data from late model GM vehicles

### **Collision Volume 11, Issue 1 (Spring 2016)**

- Nathan Rose and Neal Carter: The Accelerations Present During the Trip Phase of a Soil-Tripped Rollover Crash
- Lissette Ruberte, Billy Cox, Jr., and Susan Lantz: The Older Lady Versus the Younger Lady: Female Occupant Kinematics in Low-speed, Rear-end Collisions
- Erik Carlsson: My Turn at the Wheel: Be Careful With What You Ask For, It Might Bite You!
- Larry Trojak: Streamlining Accident Investigation
- John Bruno and Richard Ruth: Using Ford [EDR](#) Pre-crash Stability Control System Data
- Nathan Rose, Neal Carter, John Kreisher, Martin Randolph, William Neale and David Danaher: How Accurate Are Witness Distance Estimates Given in Car Lengths?
- Rusty Haight: Release Version History of Bosch [CDR](#) Tool Software
- Rusty Haight: CASE STUDY: Crash Data Case Problem with Solutions

## **2015**

### **Collision Volume 10, Issue 2 (Fall 2015)**

- Collision Staff : Crash and Learn 2015
- Adam Hyde, Joseph Manges, Mike DiTallo: A Team Approach to Crash Investigation
- Ben Lemere: The Rest of the Story
- Lawrence A. Wilson and Sean Haight: Kinematics of Braced, Un-braced, and Out-of-position Occupants in Low-speed Bumper-to-bumper Rear Impacts
- Erik Carlsson: My Turn at the Wheel: Don't Look Too Closely
- [Brian G McHenry](#): A Review of the Development and Validation of Simulation Technology for Vehicular Accident Reconstruction
- Adam Cybanski: Traffic Camera Video Analysis Validation
- [Rusty Haight](#): CASE STUDY: Who Hit Whom First?

### **Collision Volume 10, Issue 1 (Spring 2015)**

- Tobias Achstetter, Fabian Kübler, Michael Wolf and Sean Haight: Data Mining the [NHTSA NASS CDR](#) Database
- Jai Singh: The implications of the [CRASH3](#) uniaxial structural response model and the nature of available collision test data in regards to work-energy relationships for oblique impacts

- William C. Fischer: Errors and Uncertainty in Deriving Speed Estimates from Skid Tests Taken at Accident Scenes
- Erik Carlsson: My Turn At the Wheel: A DIRTY TRICK BY A LAW OF PHYSICS, OR WHAT?
- Michael T. Vecchio: Analysis and Performance of a Booster Seated 6 Year Old HIII Anthropomorphic Test Device When Utilizing Seat Belt Cinching For Lap Slack Control
- Jai Singh: A Method to Establish [Delta-V](#) and Collision Force in a Two-Vehicle Collinear Collision where Stiffness Data for One of the Vehicles is not Available
- [Adam Cybanski](#): Video-Based Accident Reconstruction of TransAsia Flight
- [Rusty Haight](#): CASE STUDY: Three Car, In-line Crash Analysis with [CDR](#) Data

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- Scott Kimbrough: Using Inequality Constraints in the Probability Analysis of Individual Motor Vehicle Accidents
- David M. Hallman: Wheel Slip and its Effect on Reported Vehicle Speed
- Clinton Marquardt: How Long Can You Stay Awake?
- Lissette Ruberte, Susan Lantz, Robert Thompson, Michael Chan, Bobby Clemence, Greg Dycus, Mitchell Burton, Brian Chan, Terry Wong, Billy Cox: Low Velocity Piston Isolator Testing of a Ford Crown Victoria
- C. Brian Moody, [Orion P. Keifer](#), Bradley C. Reckamp, Wes Richardson: Vehicle Dynamics and Resultant Occupant Accelerations Caused by Vehicle Wheel Separation
- W.R. Rusty Haight: [CDR](#) Report Data from Vehicles Subject to the GM Ignition Switch Recall with the "Epsilon" ACM
- Oren Masory, [Wade Bartlett](#), Bill Wright: Determination of Motorcycle Pre-Collision Speed

### Collision Volume 9, Issue 1 (Spring 2014)

- Jeffrey Suway, Anthony Cornetto, Ronny Wahba, John Swanson, Fawzi Bayan: Three Dimensional Simulation of a Crash Test Series in SIMON Utilizing A, B, C and D Stiffness Coefficients
- Erik Carlsson: My Turn At the Wheel: An Amazing Speed Computation
- [Nathan A. Rose](#), Neal Carter, [David Pentecost](#): Analysis of Motorcycle and Rider Limits on a Curve
- Dan H. Wyatt: Signs of a Wreck: How to Spot a Rolling Disaster
- [Rusty Haight](#), Sean Haight: Signs of a Wreck: Testing and Simulation
- James D English: Validating Crash Data Retrieval Tool Data through Crash Testing

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### Collision Volume 8, Issue 2 (Fall 2013)

- Sean Haight and Rusty Haight: Analysis of Event Data Recorder [Delta-V](#) Reporting in the [IIHS](#) Small Overlap Crash Test
- David Hallman: Differentiating Potentially Causal Precrash Component Damage from Crash Damage
- Mike May and Andrew Russell: Driver Distraction - Obtaining Mobile Device Digital Evidence
- William Brem and Wayne Denham: Evidence Sometimes Overlooked During Vehicle Inspections
- Rusty Haight, Shawn Gyorke and Sean Haight: Hyundai and Kia Crash Data: the Indispensable

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- Dawn Mutis: Bombardier Can - Am Spyder Braking and Acceleration Testing
- Erik Carlsson: My Turn at the Wheel: "Think of a Number, Then..."

## Collision Volume 8, Issue 1 (Spring 2013)

- Jai Singh: Further Developments Regarding the Dynamic Modeling of Motor Vehicle Collision Response Using the SDOF Approach
- Rusty Haight, Shawn Gyorke, and Sean Haight: Hyundai and Kia Crash Data - A Preliminary Overview
- Jeff Cardita: The Effect of Tinted Headlights. A Look Into the Level of Light Diminishment Headlights Experience When a Tint is Applied to the Headlight
- Joel Salinas: Laser Scanning for Crash Reconstruction
- Wesley Vandiver, Isaac Ikram and Bryan Randles: Validation and Use of [EDR](#) Data from a Non-[CDR](#) Supported Vehicle in a Criminal Prosecution Case
- Adam M. Hyde and Roger W. Barrette: Investigation of Traffic Crashes Involving the Inhalation of Difluoroethane
- David M. Little, Cst. Rob Joiner and Cpl. Stephen Hilliard: Accuracy of GPS Speed and Location Data Measured in Emergency Vehicles
- Reader Commentary on a Previously Published Article

## 2012

### Collision Volume 7, Issue 2 (Fall 2012)

- Lawrence A. Wilson and Sean H. Haight: Dynamics of Vehicle-to-Vehicle Side Impact Crash Tests
- Richard Auty: Pilot To Determine If Using Laser Scanning Saves Time & Improves Collision Investigations
- Erik Carlsson: My Turn At The Wheel: How To Use The Combined Speed Formula, Or Not!
- Jeffrey Suway, Anthony Cornetto, John Swanson, Fawzi Bayan, Ronny Wahba and Alfred Cipriani: A Comparison Between A Real World Crash Test, [HVE](#) Simulation and 3D Scanning
- Timothy Austin, William Messerschmidt, And Michael Farrell: Using & Preserving HVEDR Diagnostic Event Data
- Oren Masory and Nicolas Putod: Determination of Impact Force and Crush Energy Using Abductive Networks
- W. R. Rusty Haight and Sean H. Haight: Analysis And Application Of Rollover Data From Testing
- Juan M. Herrera and Anselmo Najera G.: Determination of Vehicle Orientation at Ground Contact for Rollover Accidents
- Ray Turner: School Bus Submergence Collision Investigation and Passenger Survivability
- Paul T. Semones: Reconstruction Essentials for Tread Separation Accidents Involving Axle Tramp
- James D. English, John Howell, C. Bruce Gambardella, Bob Lynn and Jeff Bangle: Crash Team Boot Camp - Crash Test Data Review
- Daniel W. Vomhof III: FORCE-BALANCE: Application of the Tool for the Determination of Closing Speeds
- John Howell and Mario Alfonsi: Yaw Marks: Past And Present

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- Timothy Joganich, MS, CHFP: Accident Reconstruction of an Unwitnessed Bicycle Mishap
- Brad R. Shults: A Method for Creating Photograph Textured Planes and Camera Positions in HVE Simulations
- Roger W. Barrette, MSE: Using the Monte Carlo Method with Crash Event Data
- Richard R. Ruth, P.E.: Accuracy of Toyota Event Data Recorders
- William J. Melkonian, D.A.: Becoming an Effective Expert Witness
- Jerry S. Ogden, PE, Mathew Martonovich, EI, Zachariah Weimer, PE, Katrina M. Kloberdanz, PE: Information Analysis for the Collision Analyst
- Ray Wangler: CDR Data from more than One Car? Fitting it all together
- Lee DeChant and Gary Cooper: Close-Range Photogrammetry for Sight-line Obstruction Determination
- Kent Boots: Toyota, Lexus, and Scion [CDR](#) Coverage
- M. Branch, R. Matthew Brach, Jarrod Carter, Joseph March, Donald Parker, Chris Van Ed, and Michael Varat: Opinion: Peer Review
- Nathan A. Rose, William T.C. Neale, Neal R. Carter: Using Data from a DriveCam Video Event Recorder to Reconstruct a Hard Braking Event

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### Collision Volume 6, Issue 2 (Fall 2011)

- [Brian McHenry](#): A Short History of Nearly Everything! ( ... about [McHenry](#) and Computers in Highway Safety)
- ARC-CSI Boot Camp Team: ARC-CSI Crash Team Boot Camp Experience and Crash Test Data Review
- [Terry D. Day](#): Intersection Crash Reconstruction - From Cradle to Grave
- Daniel Melcher, Jay Przybyla, Rachel Keller, Thomas Rush: Applications of GPS Data in Collision Reconstruction
- Lee DeChant, J Rolly Kinney: Accident Reconstruction Photogrammetry Using Zoomed Images from Digital Cameras
- [Raymond Brach](#): The Use of [EDR](#) Data in Vehicle Accident Reconstructions
- Francisco Klein: Fundamentals of Highway and Roadside Design for the Accident Reconstruction Specialist
- Bruno Schmidt, Michelle Beach: Eccentric Collisions and Post-Impact Motion - Busting a Myth
- [W.R. Rusty Haight](#): Crash Testing... Why Bother?
- W.R. Rusty Haight: Peer Reviewed Papers, the [SAE](#) and Collision Magazine Mutually Exclusive Concepts?
- Peter Bergh: My Turn At the Wheel: The Mathematics of a Bicycle Going Down an Incline

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- Sean H. Haight and Kennerly H. Digges: Vehicle and Occupant Motion in Far-Side Impacts
- David M. Little: Extracting Collision Data from Damaged Ford Powertrain Control Modules
- [Wade Bartlett](#): Estimating Maximum Motorcycle Acceleration Rates
- Charlie Greear, David Thornburg, and Lee DeChant: The Speed Triangle: Momentum, Energy and PCM Data
- William Messerschmidt, Benjamin Smith, and Al Dunn: Applying Heavy Vehicle [EDR](#) Data in the Real World
- [Donald F. Tandy, Jr.](#), Jason Colborn, Robert J. Pascarella, Todd D. Hoover: An Accident

Reconstructionist's Primer on: Tire and Wheel Rim Marks at Crash Scenes

- W. R. "Rusty" Haight: Using [CDR](#) System Data in Crash Reconstruction or What Does the Term "Complete Reconstruction" Really Mean?
- Timothy J. Reust: GPS Navigation Units: Recorded Data for Use in Accident Reconstruction
- Martin Werz and David Bliss: The Performance of Seat Backs in High Speed Rear Impacts and the Effect to the Occupant
- Michael L. Merolli, David O. Brink, and Andrew T. Apjohn: Insurance Applications for Crash Data Retrieval: Legal Considerations in 2011
- Gary M. Johnson: Preserving Heavy Truck Event Data

## 2010

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- Juan M. Herrera And Anselmo Najera G.: Model for Analyzing Single Vehicle Rollover Accidents
- Brad Muir And Jon Northrup: Devices For Accident Reconstruction Testing Beyond The Drag Factor
- Robert D. Anderson: Post-Collision Speedometer Readings And Vehicle Impact Speeds
- David A. Stopper, Phillip D. Darnell And Christopher C. Voeglie: Determining A "Best Effort" Heavy Truck Acceleration Rate Based On Time, Weight & Distance
- Christopher J. Brignola: Light Bulb Filament Analysis From The 2010 [ARC-CSI](#) Crash Conference
- Donald Floyd: Crash Data Collection Guide For GM Airbag Electronic Control Units
- Bruno Schmidt: Time Development Of [Delta-V](#) Recording And PDOF During A Collision
- Timothy J. Reust: Vehicle Navigation GPS Units Could Be The Overlooked EDR
- Robert Miller: The Butterfly Effect Of Crash Investigations
- Bill Davies: [EDRs](#) And Restraint Systems
- Dustin Nolen and Gary Johnson: Reading Data From International Medium And Heavy Duty Truck Electronic Control Modules
- [Wade Bartlett](#) and Bruno Schmidt: Cone Of Departure: A Good Idea, But Not A Law

### Collision Volume 5, Issue 1 (Spring 2010)

- H. J. Herzlich, Robert Swint, Edward Ritsch and B. Unser: Effect Of Directional Tires On Wet Traction
- Sean Haight: Wet or Frozen ACM Access Considerations
- Michael Merolli, David Brink, Patrick Conran, and Jasmine Garcia-Vieux: Insurance Applications for Crash Data Retrieval, Legal Considerations
- George Hall: CDR Evidence Suppressed by Oklahoma Court
- Rusty Haight: An Abbreviated History Of CDR Technology
- Nathan Rose: A Variable Deceleration Rate Approach to Rollover Crash Reconstruction
- Bruce McNally: Retrieving and Interpreting Data from Ford Powertrain Control Modules using the Bosch Crash Data Retrieval Tool
- Greg Russell: Common Post Impact Speed Analysis
- Chuck Veppert and David Little: [EDR](#) Module Types and Collision Data Available in [CDR](#) Supported Vehicles
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# 2009

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- Lenny Simpson and Greg Russell: What is 30?
- C. Gregory Russell: Momentum - Vectoring in a New Approach
- Brad Muir: The latest [CDR](#) System Data from GM Vehicles Update
- Gary Johnson: Honda Gold Wing Motorcycle: Linked Brakes and Their Performance
- Lee E. Jackson and Raymond L. Wangler: Braking Efficiencies of Motorcycles By Experienced Riders in Hard Braking Situations
- Richard C. Rinker: My Turn At the Wheel
- Brian Smith: Death Investigations and Their Psychological Effect on Police Officers
- Benjamin N. Smith William F. and Ronnie E. DeMonia: Testing the Last Stop Record in the Mercedes MBE 4000
- Bill Davies: Automobile Extrication for the Reconstructionist
- Marc Green, Ph. D.: Perception-Reaction Time: Is Olson (& Sivak) All You Need To Know?
- Daniel S. Peterson, P.E. and James W. Smith, P.E.: Comparison of Vehicle Measurement Techniques
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- Lee DeChant: Photo Rectification Plays an Important Role for Determining Fault in a Two Vehicle Crash
- Chuck Veppert: ACM Reprogramming
- Gary Johnson: Signal Processing Applied to Vehicle Speed Measurement and Recording
- Richard Ruth & Tim Reust: Accuracy of Selected 2008 Chrysler ACM EDR's During Braking
- Peter Bergh: Calculating Speed From Skidmarks
- William Belisle: Ranges of Safety Provided by Safety Technologies Used For Reducing Motorcycle Crashes, Fatalities, Injuries and Loss
- William J. Melkonian: [CDR](#) Evidence Frequently Asked Questions
- Peter Bergh: The Mathematics of Turns, Evasive Maneuvers, Lane Changes, and Passing
- Tim Reust, Richard Ruth, James Morgan: Using Ford PCM Data to Evaluate Deceleration Rates, Brake Time and Impact Speeds
- Peter H. Rast: Alcohol and Vehicle Collisions - Correlation or Cause?
- Robert Wyman: Forensic Photography and Crash Reconstruction Part 2: Solutions to Common Problems

# 2008

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- David A. Templeton, Jr.: Close-Range Photogrammetry as a Routine Crash Reconstruction Tool within the Florida Highway Patrol
- Alan K. Nagel: Vehicle Speed Sensor Calibration
- Peter H. Rast: Centrifugal Force Is It Real?
- Sean Haight: Basic Integral Calculus for Crash Reconstruction
- Robert Wyman: Forensic Photography and Crash Reconstruction, Part 1: The Professional



Amateur Expert Witness Photographer

- Dr. Ray Turner: School Bus Rollovers and Passenger Compartment Ejection: Solving the Puzzle Using Video analytics
- [D. Vangi](#), A. Virga, L. Pinchera: Bus Braking Tests: With and Without [ABS](#)
- Elvin Aycock: Hydroplaning: The effect of Water on the Roadway
- Gary Lewis: CASE STUDY: Motorcycle vs. Passenger Car
- Greg Russell and Rusty Haight: CASE STUDY: A Multifaceted Approach to Collision Analysis
- Greg Russell: CASE STUDY: 2 in 3 Out Revisited (follow-up from Volume 1, Issue 2)

### **Collision Volume 3, Issue 1 (Spring 2008)**

- Jai Singh, BS, MS, ACTAR, John Perry, PhD, Judson Welcher BS, MS, [ACTAR](#): Single Point Crush Variation
- Timothy Erhardt: Vehicle Fires and Airbag Modules
- Brad Muir: Comparing Different Sources of [CDR](#) Data to "Real World" Crashes
- Jai Singh, BS, MS, ACTAR, John Perry, PhD: An Alternative Formulation for Symmetric Sine Based Collision Pulse Models
- David M. Little: Cable Options for the "CDR System Handyman"
- Kevin Adkins: Quantifying the Aerodynamic Forces Acting on Objects During a Fall
- Bill Wright: Reconstruction: Seeing Across the Years
- Timothy Reust, James Morgan, Richard Ruth: The Accuracy of Speed Recorded by a Ford PCM and the Effects of Brake, Yaw and other Factors
- Richard Ruth, Timothy Reust: Dynamic Accuracy of Powertrain Control Module (PCM) Event Data Recorders During ABS Braking
- Wade Bartlett: Getting Data From Destroyed SDMs: Transferring EEPROMs Between Modules
- Rusty Haight, Sean Haight: CASE STUDY: The "trampoline Effect" in Reconstruction

## **2007**

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- William Messerschmidt, Jon Northrup: General Motors Data Recording: A Visual Approach to the Logic Functions
- Timothy Reust, James Morgan: Detailed Comparison of Vehicle Speed and the Speed Recorded by an SDM
- David M. Little: Average Daily Ignition Cycles in SDM Equipped, GM Vehicles
- David Dye: Application of Drag Coefficients to [ABS](#) related Sideslip
- James D. English: Use of the Combined Velocity Equation In Cases Involving Post-Collision Movement
- Bob Galvin: Vehicle Crush Measuring: Helpful For Extracting Key Details Of Crash Scenes Part II
- Jai Singh, BS, MS, John Perry, PhD.: Implications of Symmetric Sine-Based Collision Pulse Models on Force-Deflection Characteristics: (Part 1)
- R.J. Butler, K.C. Breen, W.R. Fischer, K.D. Bedsworth, N.R. Haupt: Using GPS based Data Acquisition in Forensic Accident Reconstruction
- Kevin Adkins: Quantifying the Aerodynamic Forces Acting on a Vehicle and Projectile
- Lawrence Wilson P.E., Michael Gilbert, P.E., Daniel Godrick: Reconstruction and Analysis of Steering-Induced, On-Road, Untripped SUV Rollover Tests (Part 2)
- Jon Northrup: Effects of Sample Rates on Accelerometer Based Skid Testing and Unit Comparison
- Charles R. Lewis: Validating Speed Analysis Calculations with Crash Test Data

- Robert Dowd: Snowmobile Performance Data
- Daniel Melcher, P.E., Jeffrey Armstrong, P.E.: Night-Time Pedestrian Collision Reconstruction Factors
- Wolfram Kalthoff, M.Eng: European Accident Reconstruction by the Visual Comparison with Crash Tests
- Rusty Haight, Brad Muir, Jon Northrup: CASE STUDY: How Do You Deal With a "Secondary Contact"?

## **Collision Volume 2, Issue 1 (Spring 2007)**

- Bruno Schmidt: Two-dimensional Analyses of [EDR](#) Information
- Lee DeChant: Close Range Photogrammetry
- Dr. Ray Turner: Compartmentalization Compromised: The Issue of School Bus Passenger Safety
- Mark S. Erikson, P.E., Wilson C. Hayes, PhD: Damage-Based Collision Severity Reconstruction Technique
- Raymond Brach, Matthew Brach: Analysis of Collisions: Conservation of Linear Momentum Part 1
- [Wolfram Kalthoff](#), Ralf Buhrmann, Eckhard Meyer: Carrying out a high-speed crash test for the Dutch police
- Terry D. Lewis: The Future of Accident Reconstruction
- Wade Bartlett: [EDR](#) Durability and 49CFR563 Survivability Requirements
- Craig C. Wilkinson, Jonathan M. Lawrence, David J. King: The Accuracy of General Motors Event Data Recorders in NHTSA Crash Tests
- Bob Galvin: Measuring Vehicle Crush ... Find the Method that Works for You
- Lawrence Wilson, Michael Gilbert, Daniel Godrick: Reconstruction & Analysis Of Steering-induced, On-road, Untripped SUV Rollover
- Rusty Haight: CASE STUDY

## **2006**

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- Greg Russell: PDOF: Principle Direction of Force
- Timothy Reust: Deceleration Rates of Modern Passenger Vehicles During Straight Line Braking and Yaw Events
- David Dye: Identification of Unusual Tire Marks at the Scene of a Motor Vehicle Collision
- Gary Lewis: Motorcycle Crash Investigation: Performance Testing and Review of Previous Studies
- [Terry Day](#): Simulations 101: Anatomy of a Simulation
- Jon Northrup: Pictometry in Crash Scene Mapping
- Knott Laboratory: Making History: [PhotoModeler](#) Software Helps Knott Laboratory Reverse-engineer the Past
- Robert Stearns: Getting Into Print As An Accident Reconstructionist
- Lawrence Wilson, Daniel Godrick, Shaun Kildare: Vehicle Dynamic Characteristics of SUVs in On-Road, Untripped Rollover Accidents
- [Wade Bartlett](#), Bill Wright, David Brill: Contribution of a Laterally Displaced Vehicle to the Post-Impact Deceleration of a Heavy Truck
- George Ripsom: My Turn at the Wheel - That's Not How I Remember It
- Brad Muir, Rusty Haight, Dan Miles: CASE STUDY: Follow-Up from Issue One
- Greg Russell, Rusty Haight, Brad Muir: CASE STUDY: 2 in 3 out - Analyzing the Collision

## **Collision Volume 1, Issue 1 (Spring 2006)**

- Timothy Reust, James Morgan: The Accuracy of Speed Recorded by an SDM and the Effects of Brake, Yaw and other Factors
- Weston Brown: Analysis of the GM Sensing and Diagnostic Module in 360 degree Linear Momentum Collisions
- Guy Barbera, Olof Jacobson, Bastiaan Cornelissen, Christopher Thomas, Donald Anderson: Motor Vehicle Event Data Recorders Validation and Use of Data for Admission to the Court
- Chuck Veppert: A Review of Various ACM Module Types and Data Recorded
- William Messerschmidt: Rational Legislative and Organizational Policy for Automotive Event Data Recorders
- George J. Hall, P.E.: Practical Aspects of Crash Data Retrieval Using the Vetronix (Bosch) System
- Roman F. Beck, David A. Casteel, Ed Phillips, Jerry Eubanks, Doug English: Motorcycle Collinear Collisions Involving Motor Vehicles Equipped with Event Data Recorders
- [Rusty Haight](#), Brad Muir: CASE STUDY: Knowing What to Look For and Where to Find It