

David W. Rochford

Collision Reconstruction Consultant
ACTAR Accredited # 2321

Member:

International Network of Collision Reconstruction, and
Washington Association of Technical Accident Investigators
National Association of Professional Accident Reconstructionists

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OVERVIEW

EDUCATION

High School Diploma: Orange High School, Orange, California.
1969

Associate In Arts Degree: Major: Police Science. Fullerton
Community College, Fullerton, California. 1972

Bachelor of Science Degree: Major: Criminal Justice. Wayland
Baptist University. 1994

CERTIFIED POLICE INSTRUCTOR

Alaska Police Standards and Training Council
Traffic Law Enforcement
DWI Enforcement *
Accident Investigation
Intoximeter 3000 Breath Test Instrument
Radar Operation. Moving (including "same direction"
radar.)*
Laser Speed detection *
Drug Influence and Identification
Driving Under the Influence of Drugs *
DataMaster cdm breath test instrument

* NHTSA course

EMPLOYMENT

Anaheim Police Department
1971 to 1981

Anchorage Police Department
1981 to 2002

Rochford Investigative Services
2002 to 2004
Collision Investigation and Reconstruction

National Traffic Safety Institute
Traffic Survival Instructor
February 2004 to present

Inland Northwest Traffic Accident Investigation, LLC

Collision Investigation and Reconstruction Consulting
Collision Investigation and Reconstruction Training
Radar and Laser Operator Course
P.O.S.T. Certified courses in the State of Idaho
A.P.S.C. Certified courses in the State of Alaska
August 2004 to present

POLICE ACADEMY TRAINING

North Orange County Police Training Academy. Anaheim, California.
440 hours. February - May, 1972

Anchorage Police Department Training Academy, Anchorage, Alaska.
440 hours. February - May, 1982

PROFESSIONAL ASSOCIATIONS

International Network of Collision Reconstructionists (INCR)
National Association of Professional Accident Reconstructionists
Washington Association of Technical Accident Investigators (WATAI)

COLLISION INVESTIGATION TRAINING

“AT SCENE” COLLISION INVESTIGATION TRAINING

Traffic Accident Investigation

24 hours. 1972

Sgt. W. Judd, Anaheim Police Department
Accredited through Fullerton Community College

Traffic Accident Investigation

24 hours. 1982

Sgt. Robert Andrews, Anchorage Police Department
Accredited through University of Alaska, Anchorage

“TECHNICAL” COLLISION INVESTIGATION TRAINING

Progressive Accident Investigation

40 hours. 1990

Sgt. Keith Pherrin, Alaska State Troopers

Technical Traffic Accident Investigation

80 hours. 1992, Anchorage, AK.

The Traffic Institute

Analysis of data from collision scenes.

COLLISION RECONSTRUCTION TRAINING

Vehicle Dynamics

40 hours. 1992 Anchorage, AK.

The Traffic Institute

Mathematical formulas to determine time-distance, acceleration rates, point of perception.

Traffic Accident Reconstruction I

80 hours. 1992, Anchorage, AK.

The Traffic Institute

Traffic Accident Reconstruction II

40 hours. 1992, Anchorage, AK.

The Traffic Institute

Study and training in the techniques of traffic accident reconstruction.

Newton's Laws of motion, conservation of energy and momentum, occupant motion and PDOF

Topics included reconstruction of collisions involving:

Autos, pedestrians, bicycles, motorcycles, commercial vehicles.

EDVAP

104 hours. Sept. - Oct. 1997, Evanston, Ill.

The Traffic Institute

Computerized collision reconstruction including: **EDCRASH, EDCAD, AND EDSMAC**

Instructors: Ken Baker and Mike Ditallo of the Traffic Institute staff.

Terry Day, President of Engineering Dynamics.

Collision Reconstruction Training, continued....

Pedestrian/Bicycle Accident Reconstruction

Texas Engineering Extension, Texas A & M University

40 hours. 1993

Jerry Eubanks, lead instructor.

Rusty Haight, assistant instructor

Inspection and Investigation of Accidents Involving Commercial Vehicles

40 hours. 1995

University of North Florida, (IPTM).

Motorcycle Accident Reconstruction

40 hours. May, 1996

Texas Engineering Extension, Texas A and M University

James Lock, Lead Instructor

Heavy Vehicle Collision Reconstruction

Traffic Institute, Northwestern University, Anchorage, AK

40 hours, October 9 – 13, 2000

Reconstruction techniques for collisions involving commercial motor vehicles, over 10000 pounds.

Forensic Mapping Specialist

40 hours. 1996

Anchorage Police Department

Training in the operation of the Sokkia Set 5 Total Station Mapping System.

Officer Fred Jones, Instructor

S.A.T.A.I. Training Conference

(Southwestern Association of Technical Accident Investigators)

16 hours. March 8th and 9th, 2002, Las Vegas, NV.

4 hours "Human Factors". Driver interaction with environment. Gary Bakken, Ph.D., CPE. Analytical Systems International, Inc.

4 hours "Expert Testimony", Paul Olson, IPTM.

4 hours "Commercial Vehicle Braking and Brake Test Data", Timothy J. Reust, Accident Science, Valencia, CA

4 hours "Speed of Vehicle While in Translational Yaw", Tom Shelton, CHP MAIT (retired).

Collision Reconstruction Training, continued....

W.A.T.A.I. Training Conference

(Washington Association of Technical Accident Investigators)

October 8th – 10th, 2002

Tacoma, WA

24 hours. Pedestrian Accident Investigation

25 crash tests with two automobiles v. dummy. Analysis of data to verify accuracy of mathematical formulas used to establish speed in auto v. pedestrian crashes.

Instructors:

Jerry J. Eubanks. Automobile Collision Cause Analysis, Inc.

Thomas F. Fugger, Jr. Accident Research and Biomechanics, Inc.

W.A.T.A.I. Training Conference

May 22, 2003

Bellevue, Washington

4 hours of Mathematics review, collision reconstruction formulas.

Courtroom presentation. Review of “other” expert’s report.

Instructor Paul Olson of IPTM.

1 hours of computer animation and collision reconstruction software by Visual Statement Inc., Kamloops, B.C., Canada.

2 hours Photogrammetry and digital photography by Lee DeChant, DeChant Consulting Services.

W.A.T.A.I. Training Conference

October 28 and 29, 2004

Tacoma, WA

Altered Vehicles; Daniel Filiatrault, ICBC instructor

Mathematical Formulas; Yaw, skids, fall, vault. Rob Obenauf of the Washington County (Oregon) Sheriff’s Office, Instructor

Identification of Roadway Tire Marks, Kari Arguello, Washington County Sheriff’s Office, Instructor

Conservation of Energy, Conservation of Momentum, PDOF, and Delta V. John Hunter of Investigative Training Services (Retired WSP MAIT Sgt.)

Collision Reconstruction Training, continued....

W.A.T.A.I. TRAINING CONFERENCE

October 10 and 11, 2005, Seattle, WA.

Presentation by the Collision Safety Institute

Rusty Haight, lead instructor

4 crash tests. 2 auto v. bus, 1 auto v. auto, 1 rear end auto v. auto with secondary collision into a bus

Operation of Event Data Recorders

Presentation by NHTSA and NASS on measuring crush damage and occupant restraint systems.

CRUSH ENERGY ANALYSIS

May 1st through 5th, 2006

Accident Analysis and Reconstruction Inc., Greg Russell

40 hours, Determining ΔV and impact speed from the analysis of crush damage. Edmonds, WA

Applied Physics For Accident Reconstruction

WATAI Training Conference 8 hours

May 9th, 2007

Instructor: Bruno Schmidt, PhD Physics, Professor of Physics, ACTAR

Advanced Motorcycle Crash Reconstruction

May 12th through May 16th, 2008

Mechanical Forensics Engineering Services, LLC

40 hours. Advanced techniques for investigation and reconstruction of collisions which involve motorcycles.

Wade Bartlett, P.E., Instructor.

“Masters in Trial” (participant)

American Board of Trial Advocates

Missoula, MT November 13th, 2009

Participated as “plaintiff expert” in mock trial.

W.A.T.A.I. TRAINING CONFERENCE

May 14th, 2010

Providing Expert Testimony

Deposition and trial testimony

Collision Reconstruction Training, continued....

Crash Data Retrieval Data Analyst

February 6 – 10, 2012 40 hours

Henderson, NV

Collision Safety Institute

Instructor: Rusty Haight

Analysis of data which has been downloaded from automobile air bag control modules

Crash Data Retrieval Technician Level I

March 26, 2012 8 hours

Las Vegas, NV

Collision Safety Institute

Instructor: John Howell

Crash Data Retrieval Technician Level II

March 27, 2012 8 hours

Las Vegas, NV

Collision Safety Institute

Instructor: John Howell

Advanced CrashZone Diagramming

June 18 – 22, 2012

Spokane Community College

Spokane, WA

Instructor: Kim Thomas, Spokane Police Dept.

WATAI Training Conference

October 22-24 2013

Accident Analysis and Reconstruction Inc. Greg Russell – Instructor

Conservation of Momentum

Solving for PDOF

Law of Sine and Cosine

Triangular Relationships in a Collision

Closing speed and restitution

Solving for impact speed when there is a second impact

CDR data in crash reconstruction

Collision Reconstruction Training, continued....

WATAI Training Conference

May 28 -29, 2014

Day 1: Low Speed Impact Analysis and Testing

Instructor: Robert Stearns

Instructor: Dr. Rick Robertson, PhD

Human Factors in Traffic Crash Reconstruction

Institute of Police Technology and Management (IPTM)

40 hours

Daytona Beach, FL

June 13 – 17, 2016

Patrick Robins PhD, instructor

Eyewitness Reliability in Traffic Crashes

Perception and Response Time.

Event Data Recorder Use in Traffic Crash Reconstruction – Level I

Institute of Police Technology and Management (IPTM)

40 Hours

Scottsdale, AZ

March 27 -31, 2017

Rick Ruth and Tim Brown

Interpreting CDR Reports and Data

Airbag deployment

Restitution

Measuring Acceleration and Delta V, Crash Impulses and Vectors

Inline Delta V

Delta V to identify Impact Speed

Conservation of Momentum

Hours of Service Regulations for Property Carrying CMV Drivers

J.J. Keller Corp.

2 hours

December 29th, 2017

On Line

Air Brakes – Master Driver

J.J. Keller Corp.

2 hours

January 3, 2018

On Line

Collision Reconstruction Training, continued....

Electronic Logging Devices

J.J. Keller Inc.
1 hour
January 6th, 2018
On Line

Commercial Truck – Emergency Maneuvers

J.J. Keller Inc.
January 11, 2018
On Line

Pre-Trip Inspection of Commercial Truck/Trailers

J.J. Keller Inc.
January 13, 2018
On Line

Cargo Securement – Dry Vans

J.J. Keller Inc.
May 19, 2018
On Line

Traffic Collision Technology

May 31, 2018
Accident Reconstruction.com Webinar
Mapping technology
1 hour ACTAR accredited

Commercial Motor Vehicle Driver Qualification

J.J. Keller Webinar
June 5th, 2018 1 hour.

Interstate or Intrastate?

FMCSR's regarding Interstate v Intrastate Commerce
J.J. Keller Webinar
July 10th, 2018 1 hour

Forensic Mapping

ARC Network webcast
Troubleshooting Total Station setup issues
Mapping techniques
March 26th, 2019
One Hour

Collision Reconstruction Training, continued....

CDL Drug Testing

JJ Keller Webcast
FMCSR drug testing procedures
1 Hour
March 26th, 2019

Personal Use, Yard Moves and Unassigned Driving

JJ Keller Webcast
1 Hour
April 30th, 2019

Forensic Mapping

ARC Network Webcast
One hour
May 7th, 2019

Understanding FMCSA's Crash Preventability Program

JJ Keller Webcast
1 Hour
August 6, 2019

Air Brakes: Inspect and Maintain, Rather Than Hit and Miss

JJ Keller Webcast
1 Hour
August 21, 2019

Driver Training: Back to Basics

JJ Keller Webcast
1 hour
August 23, 2019

All Things CDL

JJ Keller Webcast
1 hour
August 25, 2019

NAPARS Joint Training Conference

October 5th – 13th, 2020
October 5th. 2 hours motorcycle crash investigation
Wade Bartlett, Instructor

Collision Reconstruction Training, continued....

October 6th. 2 hours

Investigating and Reconstructing Rollover Crashes
John Daily, Jackson Hole Scientific

October 7th. 2 hours. Analyzing Go-Pro GPS Data for Skid Testing
Greg Russell, Accident Analysis and Reconstruction, Inc.

October 8th, 2 hours. Chip Level Data Recovery
Matt DiSogra, Delta V Forensic Engineering.
Recovering data from damaged ACM's

October 12th, 2 hours. Tires. Damage Causation
T.J. Tennent, Tennent and Associates

October 13th, 2 hours. Using Freightliner New Cascadia ECM Data in
Crash Reconstruction.
Greg Wilcoxson, Wilcoxson Consulting, Inc.
David P. Plant, PE, D.P. Plant and Associates
Wesley D. Grimes, P.E. – Collision Engineering Associates, Inc.

TRAFFIC LAW ENFORCEMENT TRAINING

California Vehicle Code

One Semester, Fullerton Community College
1970, Instructor: Sgt. Braun, CHP.

Traffic Law Enforcement

North Orange County Police Academy
40 hours
1972, Instructor: Sgt. Judd, Anaheim P.D.

Traffic Law Enforcement

Anchorage Police Training Academy
24 hours
1982, Instructor: Sgt. Andrews, Anchorage P.D.

Stationary Radar

8 hours. 1982
Anchorage Police Department

Traffic Law Enforcement Training continued....

Moving and Stationary Radar Training

40 hours. 1987
Anchorage Police Department

Radar Instructor; Moving and Stationary

40 hours. 1991
Department of Transportation. Anchorage, Ak.

Radar/Laser Operator/Instructor

40 hours. 1996
NHTSA, Anchorage, Ak.

Motor Carrier Safety

24 hours. 1987
NHTSA
Federal Motor Carrier Safety Regulations
Anchorage, Ak.

North American Driver-Vehicle Inspection Course

40 hours. 1990
U.S. DOT. CFR 49. Anchorage, Ak.

Hazardous Material Roadside Inspection Course

24 hours. 1990
U.S. DOT.
Anchorage, Ak.

Hazardous Material Familiarization

8 hours. 1991
Anchorage Police Department

Commercial Vehicle Driver Inspection

8 hours. 1998
Alaska State Troopers
Level 3 Inspections

North American Standard Commercial Motor Vehicle Inspection Course

80 hours. June, 2000
U.S. Department of Transportation and the University of Missouri
Commercial Vehicle Safety Alliance (CVSA) certified.
Anchorage, AK.

Traffic Law Enforcement Training continued....

Transportation of Hazardous Materials Inspection Course

32 Hours August, 2000
U.S. Department of Transportation
Anchorage, AK

Inspection of Cargo Tankers

24 Hours, August 2000
Mid America Transportation
Anchorage, AK

DWI TRAINING

Horizontal Gaze Nystagmus

16 hours. 1991
Sgt. Tom Katkus, Instructor
Anchorage Police Department

DWI/HGN and Drug User Identification/Instructor Course

40 hours. 1992
NHTSA
Ft. Richardson, Ak.

DWI/HGN Training Course

16 hours. 1993
Anchorage, Ak.

Intoximeter 3000 and PABT Instructor/Supervisor Course

40 hours. 1993
State of Alaska Crime Laboratory
Anchorage, Ak.

Intoximeter 3000 Instructor/Supervisor Recertification

15 hours. 1996
State of Alaska Crime Laboratory
Anchorage, Ak

Driving Under the Influence of Drugs Seminar

12 hours. 1995
Alaska Peace Officers Association Conference, Anchorage, Ak.
LAPD Drug Recognition Unit. Sgt. Thomas Page and Officer John Clark. Patricia Gould of National Traffic Law Center. Gary Branum of Associated Pathologists Laboratory.

DWI Training continued.....

Training included lecture and video of persons under the influence of drugs.

Narcotics and Drug Influence

4 hour seminar. October 27, 1997, Anchorage, Ak.
Western States Intelligence Network (WSIN)
Tom McCabe, Instructor
Two hours on drug influence.
Two hours on drug enforcement.

4TH Annual I.A.C.P. D.R.E. Drugs, Alcohol and Impaired Driving Conference. Portland, OR. June 27 - 30th, 1998

Principles of drug action: Dr. Robert Julian, St. Vincent Hospital, Portland, OR.

Study of Case Law on HGN and DRE: Patricia Gould, National Law Center.

Innovative Teaching Methods for SFSTs and DRE: Sgt. Doug Paquette, N.Y. State Police.

Prescription Medications, Over-the-counter Drugs and Driver Impairment: Dr. Gary Kay, Ph.D., Georgetown University.

The World of Hallucinogens: Dr. Alex Stalcup, Concord, CA.

Nystagmus - Medical, Natural or Drug Induced?: Dr. Robert Yolton and Dr. Karl Citek, Pacific University College of Optometry, Forest Grove, OR.

New Technology and Tools for the D.R.E.: Paul Helzer, Colorado Department of Transportation.

What's New in the World of Drugs: Phyllis J. Good, Michigan State Police.

Speed Kills - The Downside of Methamphetamine Use in Drivers: Dr. Barry K. Logan, Ph.D., Washington State Toxicologist.

DWI Training continued.....

Intoximeter 3000 Supervisor Recertification

Sept. 9 and 10, 1999.

16 hours. State of Alaska Scientific Crime Detection Lab, Anchorage. Hysterisis, Toxicology, Physiology, Pharmacology, Intoximeter operation and minor repair.

EXPERT TESTIMONY

VEHICLE COLLISION INVESTIGATION/RECONSTRUCTION

State of Alaska v. Earl M. Legon. March 1991, Anchorage, Ak. Superior Court. 3rd Judicial District.

- Point of impact

- Speed estimate

- Direction of travel at impact

- Gouge marks in pavement

- Photography; flash and ambient light (time exposure).

- Angle of vehicles at impact

State of Alaska v. Glenn Bossie. June 1991, Anchorage, Ak. Superior Court. 3rd Judicial District.

- Point of Impact, Speed estimate

- Direction of travel at impact

- PDOF

- Pre-collision skids

- Post-collision skids

- Gouge marks in pavement

- Matching damage to vehicles

- Angle of impact, Post collision travel of vehicles

State of Alaska v. Mark Shetters. August 1991. Anchorage, Ak. Superior Court, 3rd Judicial District.

- Point of impact

- Speed estimate

- Direction of travel at impact

- PDOF

- Post collision travel direction of vehicles

- Gouge marks in pavement

- Matching damage to vehicles, Angle of impact

Expert Testimony Vehicle Collisions Continued...

Municipality of Anchorage v. Cho. April 1993 Traffic Court.
PDOF

Municipality of Anchorage v. Kluczynski. October 1993. District Court.
Vehicle Dynamics to estimate "slide to stop" distance.

Municipality v. Terri Piteck. Dec. 1993. District Court.
Intoximeter 3000
Horizontal Gaze Nystagmus
Speed from "yaw" marks.
Identification of yaw marks.

Municipality v. Robert Morrison. February 1995 District Court
Identification of tire "prints" vs. "skid marks".
Speed estimate from collision damage
Matching damage of vehicles together.

Municipality of Anchorage v. Stuart Reder. August 1997. District Court.
Intoximeter 3000
Vehicle speed from "yaw marks".
Identification of "yaw marks".
Drug influence
Alcohol and prescription drugs.

State of Arizona vs. Randall Keedah CR 82002-0197
Oct. 16th 2002. Vehicular Homicide
Occupant seating position
Airbag deployment issues
Relative angle of vehicles at impact
Vehicle Inspection
Lights on/off
Tire and wheel damage as a cause of the collision
Steering component damage as a cause of the collision

Deposition. June 12th, 2003. Hanes v. Gould (see next entry)

Expert Testimony Vehicle Collisions Continued...

Hanes v. Gould. Asotin County, Washington, Superior Court
July 17th, 2003. Civil. R.V. vs. Commercial Truck
Speed of both vehicles
Commercial truck lane change distance
Linear Conservation of Momentum
Vehicle Dynamics
PDOF
Relative angle of vehicles at impact
Identification of tire marks, Matching damage of vehicles
Scrape marks from steel wheel against pavement

Balback v. Boeey. Deposition. Two auto, rear end collision.
Spokane, WA. 9-20-03

Barry v. Paulson. Deposition. Motorcycle v. Pickup
Coeur d'Alene, ID. March 29th, 2005

Grenfell v. Massa Home Center. Deposition. Commercial truck
v. flatbed pickup. Missoula, MT. Oct. 18th, 2005

Grenfell v. Massa Home Center. Trial, expert testimony.

Nov. 1st, 2005. Ravalli County Superior Court, Hamilton, MT. Vehicle
dynamics, position of vehicles at impact, comparing damage.
Commercial truck vs. flatbed pickup truck.

Stowell v. Karameti. Deposition. Two car intersection collision.
Conservation of Momentum. Coeur d'Alene, ID April 18th, 2006

Geyman v. Norco. Deposition. Two car rear end collision. Speed at
impact, brake usage, vehicle dynamics.
Missoula, MT. Sept. 12th, 2006

DeMatteo v. Russell. Deposition. Four car rear end, chain reaction
collision. Roadway evidence, vehicle damage, sequence of
collision(s). Coeur d'Alene, Idaho. Nov. 2nd, 2006

Julius v. Montana Rail Link, Deposition. Auto v. Freight Train.
Vehicle dynamics. Rail Road Crossing Design
Coeur d'Alene, ID Feb. 20, 2008

Expert Testimony Vehicle Collisions Continued...

State of Montana v. Terry Miller
Negligent Homicide, auto v. motorcycle intersection collision.
Roadway evidence, vehicle dynamics, matching damage from
motorcycle to auto.
Superior Court, Kalispell, Mt. June 11th, 2008

Julius v. Montana Rail Link
Bozeman, MT
Auto v. train single fatality
Vehicle dynamics, railroad crossing design
Superior Court, June 17, 2009

Florea v. Werner Enterprises
Deposition. August 25th, 2009
Multiple auto and commercial truck crash
Matching damage between vehicles
Vehicle dynamics
Collision sequence issues. Missoula, MT.

State of Montana v. Clinton Root
Trial: Vehicular Homicide
Speed from yaw (CSY)
Vehicle Dynamics
Roadway evidence
Matching damage
Point of Impact, Highway design defects/flaws
September 23, 2009, Polson, MT.

State of Montana vs. Nathan Oswald
Trial: Vehicular Homicide
Speed from Vault
Occupant seating positions
Roadway evidence
Investigation of roll-over crashes with occupant ejection
Helena, MT May 26th, 2010

Expert Testimony Vehicle Collisions Continued...

State of Montana vs. Sergey Buslayev
Trial: Vehicular Homicide
Commercial truck vs. pickup truck
Delta V
Speed at impact
Vehicle dynamics
Superior, MT. June 2011

State of Idaho vs. Lisa Calbick
Trial: Vehicular Homicide
Coeur d'Alene, Idaho
Criminal Defense
Off the road rollover
Delta V
Speed at impact
Vehicle dynamics
Matching Damage
Roadway evidence
Coeur d'Alene, ID August 2012

Lesmeister v. Schwartzenberger
Deposition. Coeur d'Alene, ID
4 auto fatal crash
Civil Plaintiff
Roadway evidence
Matching damage
April 2013

Karief v. Fernandez
Jury trial, Auto v Pedestrian Fatal
Anchorage, AK
Civil Defense
Determination of speed
Time/distance calculations
Matching injury to damage
Direction of travel of the pedestrian
Reaction time
Roadway evidence
August 2013

Expert Testimony Vehicle Collisions Continued...

Curry v. Talaro
Jury trial. Auto v. Bicycle. Fatal
Anchorage, AK
Civil defense
Traffic Signal Phasing
Determination of speed
Time/distance calculations
Matching injury to damage
Direction of travel
Angle of impact
Reaction time
Roadway evidence
Collision avoidance
June, 2014

Tuula v. Leo Stull and Cheesebrough
Jury trial, Kellogg, ID December 2014
Civil defense
Two auto intersection collision
Conservation of momentum
Post impact rotation
Matching damage, Angle of impact

State of Montana v. Adam Sanchez
Jury trial, Billings, MT. October, 2015
Criminal Defense
Auto v pedestrian fatal collision
Identify the area of impact
Speed of the striking vehicle
Matching injury to damage
Vehicle dynamics
Reaction time

Steve Holoyuk v. Rocky Mountain Transportation
Jury Trial, Kalispell, MT January 5th, 2016
Civil Plaintiff
Motorcycle v Commercial truck
Speed of the motorcycle

Expert Testimony Vehicle Collisions Continued...

Hamilton v Peterkin
Deposition – Civil – Defense
AST Trooper v. pickup truck
Emergency Vehicle response
Vehicle Dynamics
Driver Reaction time
Speed of vehicle at impact
October 2016

Hamilton v. Peterkin
Trial – Civil – Defense
AST Trooper v. pickup truck
Vehicle Dynamics
Position of vehicles at impact
Crash Data Retrieval
Speed at impact
March 1, 2017

Rubit v. Scarcella Bros. Construction
Deposition – Insurance Defense
Motorcycle v. van intersection crash
Rotational Mechanics
Speed at impact
Vehicle Dynamics
April 24th, 2017

Rubit v. Scarcella Bros. Construction
Civil Trial – Insurance Defense
Motorcycle v. van intersection crash
Rotational Mechanics
Speed at impact
Vehicle Dynamics
August 28th, 2017

Expert Testimony Vehicle Collisions Continued...

State of Montana v Dylan Gamel
Bozeman, Montana
Criminal Defense
Two Auto Intersection Fatal Crash
Conservation of Momentum
Speed at Impact
Vehicle Dynamics
Crash Data Analysis
October 26th, 2017

State of Montana v Katie Garding
Missoula, MT
Criminal Defense – Hearing for new trial
Rendered summary, opinion of auto v pedestrian reconstruction.
June 26th, 2018

United States v Dylan Hale
U.S. Federal Court, Mountain Home AFB
Criminal Defense – Auto v Pedestrian
February 10 – 16, 2019

Houtakker v. Precision Dirt Works
Deposition
Civil – Plaintiff
Vehicle Dynamics
Human Factors – eyewitness reliability
Roadway Evidence
Commercial Truck braking
Commercial Truck inspection

State of Montana v McNamara
Criminal Defense Auto v Pedestrian
Scene evidence
Identify area of impact
Speed of the striking vehicle
Vehicle dynamics
Drag Factor
Hamilton, MT June 18, 2020

Expert Testimony Vehicle Collisions Continued...

Several traffic cases where expert testimony was needed in non- injury collision cases.

*Partial list only

TRAFFIC COLLISIONS RECONSTRUCTED*

APD #	circa; 1989	Motorcycle v Motorcycle Cherry St., Anchorage, AK Critical injuries
	Circa 1991	Auto v bicycle Turnagain area, Anchorage, AK Critical injuries
	96-109209	Momentum Analysis Triple fatality
	96-228898	Momentum Analysis Double fatality
	96-244440	Momentum Analysis Single Fatality
	96-114518	Motorcycle v. Auto Critical injury.
	96-156122	Motorcycle v. Bicycle Critical injury.
	97-76087	Single car, run off road.
	97-82544	Single car, run off road.
	97-86060	Multiple car, run off road.
	97-77894	Auto v. Pedestrian
	97-141501	Single vehicle, run off road, over embankment.

Traffic Crashes Reconstructed, Continued...

97-141755	Single vehicle, run off road, slid into pole while sliding inverted.
97-146621	Two vehicle head on.
97-171834	Motorcycle v. pedestrian fatality.
98-25887	One car roll over with fatality.
99-23	Auto Pedestrian Fatality Single vehicle Motorcycle Fatality, Hollywood and Loop, Anchorage Single vehicle Motorcycle double fatality, 15th and L, Anchorage. Auto v. motorcycle single fatality, Northern Lights and Aircraft, Anchorage.
99-29386	Auto v. bicycle, critical injury
State of Arizona v. Keedah	Auto Pedestrian fatal. 4-02 Criminal Defense Camp Verde, AZ
State of Arizona v. Fields	One car off the road roll over. 1-02 Criminal Defense
State of Arizona v. Miles	Auto Pedestrian hit and run Criminal Defense
Hanes v. Gould (civil) State of Washington	Motor home v. Logging truck 12-02 Defense (civil)

Traffic Crashes Reconstructed, Continued...

Snyder v. Hansen State of Washington	Two auto, intersection collision 1-03 Plaintiff (civil)
Paulson v. Barry State of Montana	Motorcycle v. pickup with trailer 2-03 Defense (civil)
Balback v. Boeey	Two Car rear end collision 10-03 State of Washington
Justice V. Masters	Two Car rear end collision. 10-03 State of Washington
Kennedy v. Laidlaw Transit	Auto v. School Bus Fatal. 1-04 State of Alaska Defense (civil)
Webster (Mtl. of Enumclaw)	Two autos at intersection. 6-04 Insurance Defense
Zamora v. Kosanke	Two autos, FTY from private property, view obstruction and speed issue.6-04 Insurance Defense
Shjerve v. Kitt	Two auto, FTY left turn. Speed, lights on/off issue. 11-04 Insurance Defense
Jefferies v. City of Spokane	Intersection design issue. 7-04 Plaintiff (civil)
Buchholz v. Nebel v. Rogers	3 motorcycle collision 4-05 Defense (civil)
Stowell v. Karameti	2 car intersection collision 7-05 Defense (civil)
Grenfell v. Warr	2 flatbed trucks 6-05. Hamilton, MT 2005 Defense (civil)

Traffic Crashes Reconstructed, Continued...

Western Transfer v. Amerigas	Tractor-Semi trailer v. Flatbed 11-05 with crane. New Meadows, ID 2005 Critical Injury Defense (civil)
Geyman v. Norco	Rear end collision. Van v. SUV 11-05. Hamilton, MT 2005 11-06. Defense (civil)
Jones v. Meinema	Head on collision. SUV v Pickup, Davenport, WA. 2005 Critical Injury Mutual of Enumclaw Insurance Defense
DeMatteo v. Russell	Multiple rear end collision. Injury. Anchorage, AK 2006 Defense (civil)
State of Montana v. Curtis Thomas	One vehicle off the road rollover, One fatal. Feb. 2007 Criminal Defense
State of Montana v. Terry Miller	Auto v. Motorcycle. One fatal. May 2007 Criminal Defense
Hodges v. Hooper	Commercial Truck v. auto 2 Fatalities Parma, ID. June, 2006 Great West Casualty Co. Insurance Defense
MackKay v. Colby	Two auto intersection collision One Fatal, July, 2006 Mutual of Enumclaw Insurance Insurance Defense

Traffic Crashes Reconstructed, Continued...

Gladden v. Dupperon	Auto v. bicyclist. One fatal State Farm Insurance April 5 th , 2007 Insurance Defense
Lathrop v. Buerger	Auto v. auto rear end collision Brake light on/off determination State Farm Insurance September 2007 Insurance Defense
Rogers v. McGann	Auto v motorcycle intersection collision. Critical injuries State Farm Insurance October 2007 Insurance Defense
Krahn v. Cook	Auto v. Pedestrian. Injury. State Farm Insurance October 2007 Insurance Defense
Julius v. Montana Rail Link	Auto v. Freight train. One fatal Vehicle Dynamics issues RR crossing design flaws/issues Collision in 2003. Report 2007/08 Plaintiff (civil)
State of Montana v. Drabbles	Auto v. Auto intersection collision One fatal. Conservation of Momentum, vehicle dynamics, sight distance State of Montana Public Def.
Craggett v. Swain	Auto v. Auto Intersection collision Conservation of momentum Sight distance June 2008 Insurance Defense

Traffic Crashes Reconstructed, Continued...

Lynch v. Lundy	Auto v. pedestrian Vehicle Dynamics, sight distance, point of impact July 2008 Insurance Defense (civil)
State of Montana v. Matthew Chase	Single auto off the road State Public Defender – Missoula Single Fatality Determine if forced off road or lost control September, 2008
Florea v. Werner Enterprises	7 Truck Tractors and 2 auto collision One critical injury and one minor injury Matching damage between vehicles Vehicle dynamics Collision sequence issues Vehicle speeds February 2007 St. Regis, MT Plaintiff – civil
Kelley v. Mood	Auto v. Auto rear end collision Vehicle dynamics Delta V at impact Matching damage June 2009 Defense (civil)
State of Montana v. Clinton Root	Auto v. Commercial truck Single Fatality June 2009 Criminal Defense – Public Defender
Parric v. FedEx Ground	Commercial Truck with double trailers vs. pick up truck. Single Fatality. 2009 Pre-braking speed Delta V Vehicle Condition issues Driver Log books Criminal Prosecution and Plaintiff (civil)

Traffic Crashes Reconstructed, Continued...

Lance Fredericks v CH2M Hill, Inc and Nick Ruff	January, 2010 Dead Horse, Alaska Injury when a manlift rolled off a commercial truck. Issue: Operation and parking a commercial truck, brake operation, rolling resistance Civil Plaintiff
State of Montana v. David Bugni	January 2010 Two auto rear end collision on an interstate highway. One fatality. Matching damage, Delta V, critical speed formula. Criminal Defense
State of Montana v. Nathan Oswald	One vehicle off the road roll-over. Occupants ejected January 2010 Criminal Defense
Geiss v. Missoula County	Two vehicle side impact crash January 2010 Physical injury. Plaintiff (civil)
Shandy v. Angel	Auto v. Motorcycle June 2010 Fatal Plaintiff (civil)
Great West Casualty	Commercial Truck v Auto January 2011 Fatal Insurance Defense
Lesmeister v. Schwartzberger	Four car crash January 2011 Fatal Plaintiff (civil)
State of Montana v. Crone	One car off the road rollover January 2011 Critical injury Criminal Defense

Traffic Crashes Reconstructed, Continued...

State of Idaho v. Jon Ellington	Three car/auto pedestrian December 2011 Fatal Pedestrian/ Criminal Defense
State of Idaho v. Lisa Mireles (Calbick)	Three car crash. One car off the road roll over, one fatal. Criminal Defense February 2012
State of Idaho v. Sean O'Laughlin	One car off the road roll over One fatality, two critical injuries Criminal Defense June 2012
Karief v Fredericks	Auto v Pedestrian Fatal Anchorage, AK June 2012 Insurance Defense
Montana v Sangrey	Auto v Motorcycle Fatal Great Falls, MT Criminal Defense July 2012
Leroy v Montana	Auto v Auto Injury Missoula, MT Civil Plaintiff July 2012
Montana v Elmer	Auto v Motorcycle Fatal Kalispell, MT Criminal Defense August 2012
Curry v Talaro	Auto v Bicyclist Fatal Anchorage, AK Civil Defense November 2012

Traffic Crashes Reconstructed, Continued...

Karief v. Fernandez	Auto v Pedestrian Fatal Anchorage, AK Civil. Defense July 2012
Fretts v. Challeen	Auto v Pedestrian Critical Injury Missoula, MT Civil. Plaintiff March 2013
First Continental Freight	Commercial truck v. Pick up truck. Fatal Twin Bridges, MT Civil. Defense November 2012
Burklund v. Hebert	Auto v. 4 wheel ATV. Injury Cle Elum, WA Insurance Defense January 2013
Tamosaitis v. Hartman	Three auto rear end chain reaction Missoula, MT Civil. Plaintiff April 2013
Tula v. Stull	Two car intersection collision Silverton, ID Civil Defense July 2013
51-20N1-360	Two car rear end collision Honolulu, HI In-house reconstruction for State Farm Insurance August 2013
Russell v. Alaska Road Boring	Gravel truck v. auto intersection collision Palmer, AK Civil Defense October 2013

Traffic Crashes Reconstructed, Continued...

State of Montana v Thomas Vineyard	Auto v two Pedestrians – one fatal Missoula, MT Criminal Defense December 2013
Brown v Rounds	Auto v Motorcycle Coeur d Alene, ID Civil Plaintiff December 2013
State of Arizona v Leudtke	Three car intersection collision Criminal Defense Prescott, AZ January 2014
Bonner County v. Pepperdine	One car off the roadway v power pole Criminal Defense Sandpoint, ID April 2014 Occupant seating position, driver identification.
Anderson v. Williams	Two car intersection collision Port Townsend, WA May 2014 Conservation of Momentum No report
Herrell v. SK Construction	Two vehicle rear end crash Two semi truck tractors, 1 fatality Near Elmo, Mt August 2014 Civil defense
Larson v. FedEx	Two vehicle off road collision Two fatalities Near Deborgia, MT July, 2014 Civil, Plaintiff

Traffic Crashes Reconstructed, Continued...

Speakman v. Wolf	Auto v Bicycle Critical injury Soldotna, AK Civil, defense October 2014
State of Montana v Farbrook	Two car head on collision One fatality Helena, MT Criminal Defense October 2014
Foskett v. Palliser Inc.	Commercial Truck v Van Rear end, injury crash Conrad, MT Insurance Defense. March 2015
Hamilton v Peterkin	Two car intersection collision Kenai, AK Civil Defense June 2015
Holoyuk v Rocky Mountain Transport	Commercial Truck v Motorcycle West Glacier, Montana Civil, plaintiff August 2015
State of Montana v Adam Sanchez	Auto v Pedestrian Fatal Great Falls, MT Criminal Defense September 2015
State of Montana v Joshua Moore	One car off the road roll-over Hamilton, MT Criminal Defense, who was driving January 2016

Traffic Crashes Reconstructed, Continued...

Billingslea & Moran v McDonough	Commercial Truck (cement mixer) off the road rollover. Civil Defense. April 2016
Montana v Garding	Auto v Pedestrian Hit and Run Criminal Defense, Innocence Project E. Missoula, MT July 2016
Hoffman v. Wheaton Water Wells	Auto v. bicycle Insurance Defense Wasilla, AK September 2016
Marilyn Joe v. Johnson	Auto v. Pickup Glennallen, AK Insurance Defense November 2016
State of Montana v. James Calderhead	Single Motorcycle Crash with Fatality Criminal Defense Bozeman, MT January 2017
Alde v Kaump	Auto v Pickup head on crash Insurance Defense Dixon, MT January 2017
Rubit v. Scarcella Bros	Motorcycle v Passenger van Insurance Defense Palmer, AK February, 2017
Hickerson v Ezzell	Two auto rear-end collision Insurance Defense Coeur d Alene, ID June 2017

Traffic Crashes Reconstructed, Continued...

State of Montana v Dylan Gamel.	Two auto intersection fatal Criminal Defense Yellowstone County, Montana August 2017
Nelson v Cink	Motorcycle v auto intersection fatal Civil Plaintiff Fairbanks, AK August 2017
State of Montana v Ashley Thomas	One car off-the-road rollover, fatal Criminal Defense Missoula, MT June 2017
Compogno v. Hanson	Two auto intersection collision Insurance Defense Spokane Valley, WA July 2017
Cesar v Ihle	Two car intersection collision Civil – Plaintiff Juneau, AK November 2017
State of Montana v Emily Levens	Auto v Pedestrian Fatal Criminal Defense Missoula, MT November 2017
Danner v Johnson	Auto v Bicycle Civil – Plaintiff Haines, AK December 2017
Oakley v Kelly	Auto v Bicycle Civil – Defense Coeur d' Alene, ID December 2017

Traffic Crashes Reconstructed, Continued...

Field v Westphal	Commercial Truck v Auto – Fatal Civil Defense Whitefish, MT January 2018
Boyda v Lakey	Two pickup head-on Fatal Civil – Plaintiff Sutton, AK March 2018
State of Montana V Roger VanCleave	One car off the road rollover – Fatal Criminal Defense Deer Lodge, MT May 2018 (no report)
Duncan v TNT And Idaho Dept. of Transportation	Two vehicle head-on. Critical Injury Civil Defense. Rose Lake, ID (I-90) May 2018
Miller v State Farm	Low Speed Collision Insurance Defense Anchorage, AK June 2018
State of Montana v Eric Carver	Auto v Bicycle Criminal Defense Bozeman, MT May 2018
Four Star	Auto v Pedestrian Insurance Defense Colfax, WA June 2018
Rice v USPO	Auto v Pedestrian Plaintiff, civil Missoula, MT July 2018

Traffic Crashes Reconstructed, Continued...

Wolf v Burbage	Two Auto Intersection Crash Insurance Defense Post Falls, ID July 2018
Hubbard v King	Two Auto Intersection Crash Civil – Plaintiff Spokane, WA September 2018
State of Montana v Couture	Auto v Pedestrian Criminal Defense Missoula, MT May 2018
Houtakker v Precision Dirt Works	Three Vehicle Crash Involving a Dump Truck Civil Plaintiff Kalispell, MT September 2018
Linder v Crocker	Four Vehicle crash Purdy, WA Insurance Defense October 2018
Polhamus v Frederickson	Two auto intersection collision Spokane Valley, WA Insurance Defense October 2018
Ramos v Cleaver	Auto v Bicycle Clackamas, OR Insurance Defense October 2018
Landers v Fast Inc	Single vehicle Motorcycle Crash Civil Defense Mile 61 of I-80 Wyoming October 2018

Traffic Crashes Reconstructed, Continued...

State of Montana v Parizeau	Auto v Pedestrian Fatal Criminal Defense Ronan, MT October 2018
United States v Dylan Hale	Auto v Pedestrian Criminal Defense Mountain Home AFB February 2019
State of Montana v Jimenez	One car rollover/Fatal Criminal Defense Lake County, MT February 2019
State of Montana v Jay Heiznman	Two car Fatality Criminal Defense Carbon County, MT February 2019
Sanderson v McLain	Auto v Pedestrian Insurance Defense Selah, WA March 2019
Singh v Niederberger	Two car auto crash Insurance Defense Seattle, WA March 2019
Mau v Rybak v Khatman	Three car injury crash Civil Defense Delta Junction, AK April 2019
State of Montana v. Bloodman	Two car fatal crash Criminal Defense Pablo, MT. July 2019

Traffic Crashes Reconstructed, Continued...

State of Alaska v. Curtis	Fatal Crash Multi-car with Tour Bus Criminal Defense Portage, AK June 2019
Devault v. Mulligan	Two car injury crash Insurance Defense Sagle, ID July 2019
Spottedbird v Sansaver	Auto v Pedestrian Fatal Civil – Plaintiff Glasgow, MT March 2019
Ward v. Idaho DOT	Auto v tree Insurance Defense Lewis County, ID October 2019
State of Montana v. Bayford	One car off the road rollover Criminal Defense Missoula, MT May 2018
Berube v Gilbert	Multi-car crash Insurance Defense Bragaw and Glenn, Anchorage May 2019
Everett v Johnson	Three car rear end collision Insurance Defense Athol, ID January 2020
Allstate, Salehibavad, Amirabbas	Two car rear end collision Insurance defense – staged collision January 2020

Traffic Crashes Reconstructed, Continued...

Sims v Gallant	Two car intersection collision Civil – Plaintiff Juneau, AK March 2020
Jeske v Kammarcal	Auto v Pedestrian Civil – Plaintiff Post Falls, ID March, 2020
State of Montana v Joseph McNamara	Auto v Pedestrian Criminal Defense Hamilton, MT April 2020
State of Montana v Patricia Berliner	Auto v Pedestrian Criminal Defense Whitefish, MT August 2020
Spring v Babcock	Two Car Intersection Crash Plaintiff – Civil Juneau, AK October 2020
Yakimow v Crapo Ltd.	Commercial Truck v pickup Plaintiff – Civil Madison County, MT September, 2020
Werner v Costco	Parking lot angle collision Plaintiff – Civil Coeur d Alene, ID September, 2020

*Partial list only

Approximately 2000 traffic collision investigations conducted. Approximately 350 fatal/critical injury collision investigations conducted.

INSTRUCTOR EXPERIENCE COLLISION / RECONSTRUCTION INVESTIGATION

Police Reserve Academy, 1995
Basic Collision Investigation
Anchorage, Ak.

Police Academy, 1996
Basic Collision Investigation
Anchorage, Ak.

In-service training for patrol officers. Collision Investigation. June, 1997. Anchorage, Ak.

Training memo prepared. "Investigation of Motorcycle Accidents". Circulated to APD patrol officers.

In-service training for patrol officers in Collision Investigation. 1997

Accident Investigation I

The Traffic Institute, Northwestern University
80 hours of "at scene" investigation, Dec. 2 - 12, 1997.
Anchorage, Ak. October 1998, Anchorage, AK.

Accident Investigation II

The Traffic Institute, Northwestern University
80 hours of "analyzing scene data",

February 2 - 13, 1998, Anchorage, AK.

January 1999, Anchorage, AK

Progressive Accident Investigation

40 hours. October 2000
Anchorage, AK

Intermediate Traffic Accident Investigation

40 hours. February 2005
Twin Falls, Idaho

INSTRUCTOR EXPERIENCE - INTOXIMETER 3000
INSTRUCTOR EXPERIENCE - RADAR and LASER, DWI

Police Academy Training, Anchorage, AK.

Nov. 1997 Feb. 9, 1997
Feb. 12, 1997 Nov. 1997

Laser Speed Gun Training.

Jan. 1996.
May 1996.
June 1997 and June 1999.
Oct. 2001
Nov. 2001
Dec. 2001
Jan.2002
Feb 2005

Moving Radar Training

Sept. 1995
Feb. 1996
Oct. 1997
Nov. 1997
Alaska State Trooper Academy, Sitka, AK. Dec. 1999

DWI, Standardized Field Sobriety Testing, HGN

In service training for Anchorage Police Patrol Officers 1992
Anchorage Police Training Academy 1993-2002.
In service training for Anchorage Police Patrol Officers 1999 – 2002

Laser/Radar Instructor School

Training Alaska State Troopers and Police Officers from around
Alaska to be instructors in Radar and Laser Enforcement. June,
1998

Laser/Radar Instructor School

Anchorage, AK. May, 2002.

INVESTIGATIVE TRAINING

Crime Scene Preservation
8 hours training, 1974
Anaheim Police Department

Visual Investigations (flow charts)
8 hours training. June 22, 1977
Calif. Department of Justice.

Conspiracy Seminar
8 hours training. January 26, 1979
Calif. Department of Justice.

Protective Services Techniques
36 hours training. August 1980.
Calif. Department of Justice.
(VIP Protection)

Gambling Investigations
40 hours training. Sept. 1980
Calif. Department of Justice.

Field Training Officer
40 hours training. June 1986
Anchorage Police Department

Auto Theft Investigations
16 hours training. October 1987
Alaska Peace Officers Association
Anchorage, AK.

Forensic Mapping Specialist
40 hours training. June 1996
Sokia Set 5 Total Station Mapping System.

Reid Technique of Interviewing and Interrogation
24 hours training. May 1991.
John Reid and Associates.

Reid Advanced Interrogation Techniques
24 hours training. Sept. 1993.
John Reid and Associates.

Investigative Training, continued.....

Narcotics Investigation Training Program
3 months. Sept. – Nov. 1995
Anchorage Police Department.

Knock and Talk
4 hours training. Oct. 1997
Anchorage, AK
WSIN, Tom McCabe, Instructor

OVERVIEW OF LAW ENFORCEMENT EXPERIENCE

1971 - 1972
Police Cadet with Anaheim Police Department
Dispatch and Property section,

1972- 1974
Patrolman with Anaheim Police Department

1974 - 1979
Investigator: Anaheim Police Department, Narcotics Division

1979 - 1981
Investigator: Anaheim Police Department, Vice Division.

1981 - 1982
Police Officer, Anchorage Police Department, Warrant Section.

1982 - 1985
Patrolman: Anchorage Police Department.

1985 - 1986
Anchorage Police Traffic Section

1986 - 1988
Patrolman: Anchorage Police Department

1988 - 1992
Anchorage Police Traffic Section

1992 - 1995
Anchorage Police Patrol Division.

1995

Investigator: Anchorage Police General Investigations Unit.

1995 - 1997

Anchorage Police Traffic Section

DWI enforcement.

1996 - 2002

APD Major Accident Investigation Unit.

1997 - 2002: Anchorage Police Patrol Division

End of Curriculum Vitae