



Kauderer & Associates

Traffic Accident Reconstruction Experts

CURRICULUM VITAE OF **KENT E. BOOTS, ACTAR**

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Employment History

- ◆ **Kent E. Boots & Associates (sole proprietor) Rocklin, CA: August 2003 – Present**
- ◆ **FactualDiagrams.com (sole proprietor) Rocklin, CA: October 2007 - Present**
- ◆ **WeCARE, West Coast Accident Reconstruction Equipment & Education, August 2003 - Present**
- ◆ **Riverside Community College, Adjunct Faculty – May 2002 to present**
- ◆ **Law Enforcement Training Center, The Office of the Sheriff, Contra Costa County, August 2005 to March 2009**
- ◆ **Rancho Santiago Community College, Criminal Justice, Instructional Associate - December 2001 to April 2006**
- ◆ **Rudy Degger & Associates, Inc. Rocklin, CA: January 2006 – December 2007**
- ◆ **Orange County Sheriff's Department (CA): September 1986 – August 2006**
- ◆ **United States Marine Corps, Honorable discharge: September 1982 - August 1986**

Educational Background

- ◆ **Riverside Community College, Riverside, CA**
 - A.S. Degree with distinction - Administration of Justice, January 1992
- ◆ **Rancho Santiago Community College, Santa Ana, CA**
 - P.O.S.T. Peace Officer Basic Course, January 1987 (680 hours)
- ◆ **Bettendorf High School, Bettendorf, IA**
 - High School Diploma, Honor Roll Graduate, June 1982

Professional Awards and Certifications

- ◆ **Accreditation Commission for Traffic Accident Reconstruction (A.C.T.A.R.):**
 - Full accreditation, registration number 1170, October 2001
- ◆ **Bosch Crash Data Retrieval System Technician - Certified Trainer/Mentor**
 - Vetronix & Collision Safety Institute, February 2006
 - Recertified, Bosch & Collision Safety Institute, February 2008, January 2009, January 2011
- ◆ **The CAD Zone**
 - Certified as a trainer, June 2005
 - Certified as master trainer, July 2008
- ◆ **Professional Society of Forensic Mapping (PSFM)**
 - Approved instructor, November 2009
- ◆ **Thompson Education Direct**
 - Diploma for completion of the Auto Repair Technician (mechanic) Program, September 2004
- ◆ **Esco Institute**
 - EPA Certification for Motor Vehicle Air Conditioning, September 2004
- ◆ **U.C. Riverside University Extension, Riverside, CA - Course Sequence Awards**
 - Advanced Traffic Accident Reconstruction Training Institute, 200-hour, January 2000

- Traffic Accident Investigation Training Institute, 180-hour, October 1999
- ◆ **Commission on Peace Officer Standards and Training (P.O.S.T.)**
 - Advanced Certificate, January 1996
 - Intermediate Certificate, March 1992
 - Basic Certificate, January 1988

Specialized Education * Denotes training approved for A.C.T.A.R. Continuing Education Units

- Crash Data Retrieval System – Technician, Train the Trainer Update Course, Collision Safety Institute, Houston, Texas, 8 hours, January 2011
- CSVPro 2011 workshop, Greg Russell, Houston, Texas, 2 hours, January 2011*
- Hands-on Lab: Instructor-led CDR Imaging, Collision Safety Institute, Houston, Texas, 2 hours, January 2011*
- Attendance at the Crash Data Retrieval User's Summit, ARC Network & Collision Safety Institute, Houston, Texas, 20 hours, January 2011*
- ARAS 360 Advanced 3D Computer Diagramming, Chet Tomlinson – ARAS 360, Vallejo, California, 24 hours, January 2011*
- Collision Fraud Investigation, Sgt. Chris Mendez, Det. Steve Hardy, (Sponsored by CA²RS), Sacramento, California, 8 hours, August 2010*
- Accident Reconstruction and Biomechanical Analysis of Pedestrian Collisions, Jesse Wobrock, Ph.D. (Sponsored by CA²RS), Roseville, California, 8 hours, May 2010*
- Investigation and Analysis of Rollover Collisions, Kurt D. Weiss, MSME (Sponsored by CA²RS), San Jose, California, 8 hours, February 2010*
- Attendance at 1st Annual Crash Investigation Skill Building Conference, Kinetic Energy Press – Rick Robertson Ph.D, Crash Injuries and the Correct Identification of Occupant Seating Positions – Robert Stearns, Crash Scene Photography, Identification & Interpretation of Roadway and Vehicle Evidence – Peter Rast, Case Studies in High Speed Crash Events, 16 hours, February 2010*
- Attendance at the Crash Data Retrieval User's Summit, ARC Network & Collision Safety Institute, Houston, Texas, 20 hours, January 2010*
- Attendance at S.A.T.A.I. Winter Conference, Aftermarket Components & the EDR – Mark Salem, Stiffness Data Research & Calculations – Daniel W. Vomhof III, Experts & Lawyers in the Courtroom – Joel B. Robbins, Esq., EDR Discrepancies – Steve Van Gaasbeck, Esq., San Diego, CA, 12 hours, November 2009*
- Attendance at 11th Annual CA²RS Training Conference, Traffic Signal Intersections, Auto-Bike crashes, Auto-Ped crashes, Vehicular Homicide Prosecution Cases, Validation of the Searle Formulae, Physics Demonstrations – Anaheim, California, 20 hours, October 2009*
- Motorcycle Crash Reconstruction & Case Studies, Toby Gloekler, PE, ACTAR, (Sponsored by CA²RS), Vallejo, California, 8 hours, August 2009*
- Seatbelt Analysis & Occupant Kinematics, Robert Stearns, (Sponsored by CA²RS), Sacramento, California, 8 hours, May 2009*
- Investigation of Motorcycle Crashes, IPTM, **acceleration and skid testing**, Vallejo, California, 40 hours, March 2009*
- Crash Data Retrieval System – Technician, Train the Trainer Update Course, Collision Safety Institute, Houston, Texas, 8 hours, January 2009
- Attendance at the Crash Data Retrieval User's Conference, ARC Network & Collision Safety Institute, Houston, Texas, 20 hours, January 2009*
- Human Factors for Traffic Accident Reconstruction, **vehicle headlight pattern mapping**, Jeffrey Muttart – Accident Dynamics Research Center, Sacramento, CA, 40 hours, January 2009*
- Crash Data Retrieval (CDR) – Data Analyst Certification Course, Collision Safety Institute, North Las Vegas, Nevada, 32 hours, December 2008
- Attendance at 10th Annual CA²RS Training Conference, Drag Factor, Narrow Object Impacts, Critical Speed/Yaw, Roll overs, Human Factors, Being an Effective Witness/Surviving Cross Examination – Sacramento, California, 20 hours, October 2008*

- Crash Data Retrieval System – Advanced Skills for the CDR Technician, Collision Safety Institute, Whittier, California, 24 hours, August 2008
- Attendance at the ARC-CSI Crash Conference, **M/C versus vehicle, vehicle versus vehicle, vehicle versus pedestrian crash tests**, ARC Network & Collision Safety Institute, Houston, Texas, 28 hours, June 2008*
- Intersection Collisions, Chris Kauderer, (Sponsored by CA²RS), Vacaville, California, 8 hours, May 2008*
- Applied Physics, Dr. Bruno Schmidt, (Sponsored by CA²RS), San Diego, California, 7 hours, April 2008*
- Crash Data Retrieval System – Technician, Train the Trainer Update Course, Collision Safety Institute, Houston, Texas, 5 hours, January 2008
- Attendance at the Crash Data Retrieval User's Conference, ARC Network & Collision Safety Institute, Houston, Texas, 20 hours, January 2008*
- Bicycle collision investigation, Roman Beck (Sponsored by CA²RS), Vallejo, California, 8 hours, January 2008*
- Attendance at 9th Annual CA²RS Training Conference – CA²RS Toolbox; A Reconstruction Grab Bag, **Idle acceleration and skid testing, Low Speed Crash Tests, Vehicle versus Pedestrian crash tests**, Anaheim, California, 20 hours, October 2007*
- Basic/Advanced Diagramming, Animation, and SMAC FX Simulation using Vista FX3, Sam El Said, Roseville, California, 32 hours, September 2007
- Forensic Mapping Revisited, Mick Capman, (Sponsored by CA²RS), Vallejo, California, 8 hours, May 2007*
- Projectile Motion, Rudy Degger, (Sponsored by CA²RS), Long Beach, California, 8 hours, April 2007*
- Attendance at the Crash Data Retrieval User's Conference, ARC Network & Collision Safety Institute, Houston, Texas, 20 hours, January 2007*
- Attendance at 8th Annual CA²RS Training Conference – Crash Reconstruction – Start to Finish, South Lake Tahoe, California, 20 hours, November 2006*
- Crash Data Retrieval System – Data Analyst Certification Course, Collision Safety Institute, Vallejo, California, 24 hours, August 2006
- Crash Photography – Beyond the Basics, Will Funk (Sponsored by CA²RS), Riverside, California, 8 hours, June 2006*
- Speed From Skid & Working With Energy, Kerry A. Berg & Steve Haverkamp (Sponsored by CA²RS), Long Beach, California, 8 hours, May 2006*
- Crash Data Retrieval System – Technician, Train the Trainer Course, Collision Safety Institute, Dallas, Texas, 16 hours, February 2006
- Attendance at the Crash Data Retrieval User's Conference, ARC Network & Collision Safety Institute, Dallas, Texas, 16 hours, February 2006*
- ABS Brake Systems and Related Physical Evidence, Alan Coulter & Wesley Vandiver (Sponsored by CA²RS), Vallejo, California, 8 hours, January 2006*
- Attendance at 7th Annual CA²RS Training Conference – Investigating Emergency Vehicle Collisions, Keynote Speaker: Dr. Stephen S. Solomon, B.S., O.D. author of Emergency Vehicle Accidents, Temecula, California, 20 hours, October 2005*
- Commercial vehicle brake inspections & determining braking efficiency, Bill Focha & James C. Holder (Sponsored by CA²RS), Hayward, California, 8 hours, July 2005*
- Friction Applications in Vehicular Accidents & Motorcycle Braking and Accident Reconstruction, **rolling resistance testing**, Boyd Allin, MASc, PE & Steve Anderson, PE, Macinnis Engineering Associates Inc., Lake Forest, California, 6 hours, May 2005
- Forensic Mapping and Diagramming, Duke Dutch – Sokkia Corporation (Sponsored by CA²RS), Orange, California, 8 hours, April 2005*
- Driving Under the Influence – Human Factors and DUI Lab, Ken Whitley (Sponsored by CA²RS), Long Beach, California, 8 hours, April 2005
- Motorcycle Crash Investigation, IPTM, **acceleration and skid testing**, Orange, California, 40 hours, March 2005*

- PC Crash computer software training - advanced workshop, Macinnis Engineering Associates Inc., Las Vegas, Nevada, 16 hrs., March 2005
- Advanced CrashZone-CrimeZone, U.C. Riverside Extension, 16 hrs., February 2005
- Mapping with CrashZone-CrimeZone, U.C. Riverside Extension, 20 hrs., February 2005
- Attendance at 6th Annual CA²RS Training Conference – Motorcycle Collision Investigation and Reconstruction, **dynamic friction testing, motorcycle to vehicle crash tests**, Santa Rosa, California, 20 hours, October 2004*
- Street Racing and Modified Vehicle Investigations, San Diego Police Department – DragNet Unit, Laguna Hills, California, 4 hours, October 2004
- Linear Momentum, Rudy Degger, (Sponsored by CA²RS), Anaheim, California, 8 hours, August 2004*
- Forensic Mapping Specialist (Leica Total Station), MJC & Associates, Lake Forest, California, 40 hours, June 2004*
- Post-Collision Passenger Vehicle Inspection and Seat Belt Analysis, Alan Coulter, Wesley Vandiver (Sponsored by CA²RS), Long Beach, California, 8 hours, April 2004*
- Leica instrument fundamentals, Evidence Recorder Pro training, Greg Hazelquist – Servco, Aliso Viejo, California, 8 hours, April 2004
- Attendance at S.A.T.A.I. Spring Conference, Reconstruction and Mathematical Analysis/ Simultaneous Equations to Solve In-Line Collisions by John Daily and Nate Shigemura, Energy in Traffic Collision Reconstruction by Gary Cooper, Las Vegas, Nevada, 11 hours, March 2004*
- Human Factors in Collision Analysis, David Casteel, (Sponsored by SDCCIA), San Diego, California, 8 hours, February 2004
- Advanced Lamp Analysis, James Domenoe, (Sponsored by CA²RS), Garden Grove, California, 8 hours, February 2004*
- Crash Data Retrieval (CDR) Toolkit Operator's Certification Course, Collision Safety Institute, Anaheim, California, 24 hours, December 2003*
- Attendance at S.A.T.A.I. Fall Conference, Visibility and the Investigator, Nighttime Visibility, Photogrammetry, Friction and Skid Testing, San Diego, California, 16 hours, November 2003*
- Attendance at CA²RS versus Bikes and other in-line wheeled devices, **acceleration and braking testing of motorized scooters and Segway**, Anaheim, California, 20 hours, October 2003*
- Auto-Pedestrian Traffic Accident Investigation, **7 vehicle vs. pedestrian collisions, skid testing, human/dummy drag tests, pedestrian walking speeds, visual speed estimations**, WeCARE, Sacramento, California, 40 hours, August 2003*
- Momentum – What is it; how and why it can be used to reconstruct the speed of vehicles in a collision, Rudy Degger, Aliso Viejo, California, 8 hours, May 2003
- Computers in Accident Reconstruction, Rudy Degger & Charles Barton, (Sponsored by CA²RS), Anaheim, California, 8 hours, May 2003*
- Basic tire mechanics and inspection, Tom Giapponi, (Sponsored by CA²RS), Garden Grove, California, 8 hours, March 2003*
- Vehicle Emissions Tampering, California EPA Air Resources Board, 2 hours, February 2003
- What we've learned from the "dummies", How and why injuries occur in crashes, Calsafe Traffic Safety Forum, 2 hours, January 2003
- Alco Sensor IV-XL at point of arrest system, certified operator, OCSF FSS, 4 hours, December 2002
- PC Crash computer software training, Macinnis Engineering Associates Inc., 16 hrs., November 2002
- Attendance at 2002: "Truck'n with CA²RS" – A seminar in Accident Reconstruction Focusing on Heavy Vehicles, **acceleration and skid testing, off-tracking, vehicle to vehicle crash tests**, Anaheim, California, 20 hours, October 2002*
- Defensive Driving – Driving Simulator/ Force Option Simulator, Orange Co. Sheriff's Dept., 8 hrs., September 2002
- Testimony in Criminal and Civil Proceedings, Creg Datig, William Hoback (Sponsored by CA²RS), Santa Ana, California, 8 hours, August 2002
- Vericom VC 2000 Traffic Accident Reconstruction Training Class, **acceleration and skid testing**, Rick Jobe – Vericom Computers, 15 hours, June 2002*

- An Overview of Fire in Accident Reconstruction, Pete Klaput (Sponsored by CA²RS), Valencia, California, 8 hours, May 2002*
- Injury Mechanisms During Motor Vehicle Collisions, Rick Robertson, PhD (Sponsored by CA²RS), Anaheim Police Department, 8 hours, February 2002*
- Attendance at 2001: "A Collision Odyssey" – Back to the Basics (Sponsored by CA²RS & SOAR), Concord, California, 20 hours, October 2001*
- Human Factors-Occupant Dynamics, Riverside Sheriff's Dept. (Sponsored by CA²RS), 8 hrs., August 2001
- Computer-Assisted Traffic Accident Reconstruction using MathCad 2001, U.C. Riverside Extension, 40 hrs., June 2001
- Traffic Collision Investigation – Motor Vehicle Inspection, Riverside Sheriff's Dept., 40 hrs., November 2000
- MapScenes computer software training, MJC & Associates, 24 hrs., October 2000
- Attendance at World Reconstruction Exposition 2000 (WREX), **vehicle to vehicle crash tests, vehicle body friction tests, motorcycle tests, skid testing**, Texas A&M University, September 2000
- DUI Prevention Training – Community Service Programs/ MADD, 4 hours, May 2000
- Commercial Vehicle Accident Investigation, **acceleration and skid testing**, U.C. Riverside Extension, 40 hrs., March 2000
- Human Factors in Accident Reconstruction, U.C. Riverside Extension, 8 hrs., March 2000
- Tire Damage Analysis Course, Michelin (Sponsored by CA²RS), 8 hrs., February 2000
- Forensic Mapping Specialist (Sokkia Total Station), MJC & Associates, 40 hrs., Nov. 1999
- Principles of Investigating Low-Speed Impacts, **ten low-speed staged collisions**, U.C. Riverside Extension, 40 hrs., October 1999
- Reconstruction of Auto vs. Pedestrian./ Bicycle Accidents, U.C. Riverside Extension, 24 hrs., Oct. 1999
- Computer-Aided Collision Diagramming (Autosketch 6.0), U.C. Riverside Extension, 24 hrs., September 1999
- Speed Determination From Crush Analysis, U.C. Riverside Extension, 40 hrs., May 1999
- Staged Collision Training, CA State Dept. of Insurance, 2 hrs., March 1999
- P.O.S.T. Traffic Accident Reconstruction, Los Medanos College, 80 hrs., March 1999
- Vehicle Lamp Analysis, U.C. Riverside Extension, 8 hrs., February 1999
- Traffic Accident Photography, U.C. Riverside Extension, 8 hrs., January 1999
- P.O.S.T. Advanced Traffic Collision Inv., Los Medanos College, 80 hrs., October 1998
- Traffic Lidar Certification (laser speed detection), Kustom Signals, Inc., February 1998
- P.O.S.T. Intermediate Traffic Collision Inv., Riverside Sheriff's Dept., 40 hrs., Sept. 1997
- Grade Crossing Collision Inv., Union Pacific Railroad P.D., 16 hrs., June 1997
- Occupant Protection/ Child Restraint Awareness, Orange Co. Sheriff's Dept. (NHTSA), 4 hrs., February 1996
- Doppler Radar Certification, Orange Co. Sheriff's Dept., January 1996
- P.O.S.T. Basic Collision Inv., Riverside Sheriff's Dept., 40 hrs., January 1994
- Advanced Driver's Training, Academy of Defensive Driving, 24 hrs., December 1986

Expert Witness Testimony

- Qualified as an Expert in Traffic Accident Reconstruction on numerous occasions in California State Superior and Municipal Courts. Court locations include:

Contra Costa County	Orange County	Sacramento County
San Mateo County	Solano County	

Selected areas of testimony

- Emergency vehicle operations and "Code-3" driving
- Forensic mapping, total station technology, and CAD scale diagrams
- 3D scale diagrams

- Lamp analysis for on-off determination
- Linear momentum analysis
- Post collision coefficient of friction determination and resultant drag factors
- Seat belt examination for use determination
- Speed determination by damage and/or energy analysis
- Vehicle damage documentation
- Deposed as an Expert in Traffic Accident Reconstruction on numerous occasions
- Consulted with the Orange County District Attorney's Office on numerous occasions
- Consulted with various Orange County Law Enforcement Agencies on numerous occasions
- Consulted with various Northern California Law Enforcement Agencies on numerous occasions
- Consulted with various Federal, State, and County Law Enforcement Agencies on numerous occasions

Research and Development

- 6 dynamic friction tests for motorcycles sliding, 25 motorcycle versus passenger vehicle lateral impact tests at 30-60 mph, California Association of Accident Reconstruction Specialists, August 2009
- 100+ police motorcycle (3 models) skid & acceleration tests, Elk Grove Police Department, July 2009
- 6 Passenger vehicle skid tests, 2 police motorcycle dynamic lean tests, 28 motorcycle acceleration tests, 16 motorcycle skid tests, 1 dynamic friction tests for motorcycles sliding, IPTM, March 2009
- Vehicle headlight beam pattern mapping, results included in I.DRR, Integrated Driver Response Research Software, January 2009 - Present
- Idle acceleration and skid testing, Low Speed Crash Tests, Vehicle versus Pedestrian crash tests, California Association of Accident Reconstruction Specialists, October 2007
- Police vehicle skid tests (coefficient of friction), Contra Costa County Sheriff's Department, June 2006 – March 2009
- 5 Vehicle versus pedestrian (dummy) collisions, skid testing, human/dummy drag tests, pedestrian walking speeds, WeCARE, April 2006
- 9 Nighttime visibility tests using a Minolta LS-100 Luminance Meter, MEA Forensic Engineers and Scientists, September 2005
- 9 Rolling resistance tests with two passenger vehicles, MacInnis Engineering Associates & Orange County Sheriff's Department M.A.R.T., May 2005
- 3 Passenger vehicle skid tests, 2 police motorcycle dynamic lean tests, 13 police motorcycle acceleration tests, 10 police motorcycle skid tests, 2 dynamic friction tests for motorcycles sliding, IPTM, March 2005
- 5 dynamic friction tests for motorcycles sliding, 20 motorcycle versus passenger vehicle lateral impact tests at 30-66 mph, 3 motorcycle versus passenger vehicle frontal impact tests at 34-52 mph, California Association of Accident Reconstruction Specialists, October 2004
- 6 low-speed rear and lateral impact testing of passenger vehicles, Macinnis Engineering Associates Inc., May 2004
- 4 Vehicle versus pedestrian (dummy) collisions, skid testing, human/dummy drag tests, pedestrian walking speeds, WeCARE, April 2004
- Commercial vehicle acceleration tests, skid tests, installed brake pressure transducers on three vehicles and temperature sensors on one vehicle, low-speed rear and lateral impact crash testing of a passenger car versus sport utility vehicle, University of California - Riverside, February 2004
- Police vehicle skid tests (coefficient of friction), Orange County Sheriff's Department, October 2003 – August 2006
- 7 Segway (EPAMD) acceleration and deceleration tests, 19 acceleration and deceleration tests with 6 different motorized scooters, gas and electric, California Association of Accident Reconstruction Specialists, October 2002
- 7 Vehicle versus pedestrian (dummy) collisions, skid testing, human/dummy drag tests, pedestrian walking speeds, visual speed estimations, WeCARE, August 2003

- Passenger vehicle skid tests (coefficient of friction), California Association of Accident Reconstruction Specialists, August 2003
- Low-speed rear and lateral impact crash testing of tractor-trailer and large buses versus passenger cars and light trucks versus passenger cars, California Association of Accident Reconstruction Specialists, October 2002
- High-speed rear crash testing of passenger car versus tractor-trailer combination and high speed lateral trailer under-ride passenger car versus trailer, California Association of Accident Reconstruction Specialists, October 2002
- Passenger vehicle, passenger buses, fire engine, and tractor-trailer combination acceleration and skid tests (coefficient of friction), California Association of Accident Reconstruction Specialists, October 2002
- Passenger bus and tractor-trailer combination off-tracking testing, California Association of Accident Reconstruction Specialists, October 2002
- 4 Police Vehicle skid tests (coefficient of friction), 7 Police Vehicle acceleration tests, Vericom Training, June 2002
- Passenger vehicle, police vehicle, and police motorcycle skid tests (coefficient of friction), Riverside County Sheriff's Department, March 2002 – August 2006
- 27 Fire Apparatus & Police Vehicle skid tests (coefficient of friction), 36 Fire Apparatus & Police Vehicle Acceleration Tests, Orange Co. Sheriff's Dept./ Anaheim Police Dept., July 2001
- 11 Fire Apparatus & Police Vehicle skid tests, Orange Co. Sheriff's Dept., November 2000
- Passenger vehicle, police vehicle, and police motorcycle skid tests, Orange County Sheriff's Department, November 2000 – August 2006
- Vehicle to vehicle crash tests, skid tests, vehicle body friction tests, motorcycle crash tests, World Reconstruction Exposition (WREX), College Station, Texas, September 2000
- Commercial vehicle acceleration tests, skid tests, and off-tracking, University of California - Riverside, March 2000
- 10 Low-Speed Rear-Impact Crash Tests, U.C. Riverside, October 1999

Teaching Experience

- FactualDiagrams.com, October 2007 to present; Lead instructor for the following classes: Bosch Crash Data Retrieval Technician Course, Basic-Intermediate CrashZone/CrimeZone, Advanced CrashZone/CrimeZone, Forensic Mapping System Certification Course, Advanced Forensic Mapping System Course. Instructor for the following course: ACTAR Test Preparation Course
- Certified by Bosch and Collision Safety Institute, February 2006 to present: Instructor for the Crash Data Retrieval System Technician course
- Certified by CAD Zone as a trainer, June 2005 to June 2008. Certified as a Master Trainer July 2008 to present; Instructor for the following classes: The CrashZone, The CrimeZone, The FireZone, Pocketzone, and Quick Scene
- Henry C. Lee Institute of Forensic Science, University of New Haven (CT), April 2008 to present; Principal instructor for the following classes Basic-Intermediate CrashZone/Crimezone, Advanced CrashZone/CrimeZone, Forensic Mapping with PocketZone
- WeCARE, West Coast Accident Reconstruction Equipment & Education, August 2003 to present; Instructor for the following classes: Traffic Collision Reconstruction – The Auto-Pedestrian Impact. Subject matter includes: Physical evidence: ground, pedestrian, and vehicle, Haddon matrix, forensic photography, determining AOI, determining final rest, vehicle documentation, pedestrian injury.
- Law Enforcement Training Center, The Office of the Sheriff, Contra Costa County, August 2005 to March 2009; Principle Instructor for the following classes: Basic CrashZone/Crimezone, Advanced CrashZone/CrimeZone, and Computer-Aided Collision Diagramming using AutoSketch. Instructor for the following classes: P.O.S.T. Intermediate, Advanced Traffic Collision Investigation, Traffic Collision Reconstruction II. Subject matter includes: Coefficient of friction determination, field skid testing and practical application, vehicle damage factors, documentation, and diagramming.
- Ben Clark Training Center, Riverside County Sheriff's Department (Adjunct Faculty, Riverside Community College), March 2002 to August 2006; Instructor for the following classes: P.O.S.T. Basic,

Intermediate, and Advanced Traffic Collision Investigation, Computer-Aided Collision Diagramming using AutoSketch. Subject matter included: Coefficient of friction determination, collision investigation procedures, collision photography, collision scenario practical applications, diagramming, forensic evidence, measuring and documenting skidmarks, report content and format, skidmark identification, traffic collision laws, and vehicle factors.

- Orange County Sheriff's Regional Training Center, Orange County Sheriff's Department, May 2001 to August 2006; Instructor for the following classes: P.O.S.T. Basic, and Intermediate Traffic Collision Investigation. Subject matter included: Accident scene response & evaluation, determining primary collision factors, traffic collision laws, coefficient of friction determination, mathematical formulae, field skid testing and practical application.
- Orange County Sheriff's Regional Training Center, Orange County Sheriff's Department, May 2001 to March 2003; Instructor for the P.O.S.T. Requalification course. Subject matter included: Driving under the influence, emergency vehicle operations (pursuit driving & "Code 3" operation), and vehicle code laws.
- Orange County Sheriff's Training Academy, Orange County Sheriff's Department, March 2000 to August 2003; Instructor for P.O.S.T. Learning Domain 28 of the basic academy. Subject matter included: Laws of Arrest, Traffic Enforcement, and vehicle code laws.

Guest Speaker Appearances

- Orange County Urban Auto Task Force (UATF): CA Highway Patrol, CA Department of Insurance – Fraud Division, Orange County District Attorney's Office, *Crash Data Retrieval*, Santa Ana, CA, December 2010
- Kinetic Energy Press, 1st Annual Crash Investigation Skill Building Conference, *Best Practices in Forensic Measuring/Diagramming of Crash and Crime Scenes*, Hillsboro, OR, February 2010
- California State Division International Association for Identification, 93rd Annual Training Seminar, *Computer-Aided Crime Scene Diagramming*, San Jose, CA, May 2009
- Northern California Fraud Investigators Associations (NCFIA), *New Investigative Technology, Techniques, and Tips*, Sacramento, CA, February 2009
- San Diego County Collision Investigators Association winter training seminar, *Forensic Mapping Workshop*, San Diego, CA, February 2009
- Collision Safety Institute, *Crash Data Retrieval (CDR) Technician Course*, North Las Vegas, NV, December 2008
- California Association of Accident Reconstruction Specialists, *Vehicle factors in crash reconstruction*, Santa Ana & Sacramento, CA, August 2008*
- California Association of Accident Reconstruction Specialists, *Vehicle damage documentation & crush measurement protocol*, Santa Rosa, CA, July 2007*
- California Association of Accident Reconstruction Specialists, *Vetronix Crash Data Retrieval Technician Course*, Orange, CA, February 2007*
- California Association of Accident Reconstruction Specialists, *Vetronix Crash Data Retrieval Technician Course*, Vacaville, CA, January 2007*
- California Association of Accident Reconstruction Specialists Annual Conference, *Crash Reconstruction – Start to Finish: 1st Responder – Where do I begin & end, case study presentation*, South Lake Tahoe, CA, November 2006*
- Brea Police Department, *Vehicle Damage Documentation & Diagramming Using a Total Station*, Brea, CA, February 2006
- OCSD Major Accident Reconstruction Team Quarterly Training, *Vetronix Crash Data Retrieval System Technician Course*, Aliso Viejo, CA, June 2006
- Anaheim Police Department, *Forensic Mapping System Overview & how to download into CrashZone*, Anaheim, CA, February 2006
- San Jacinto Police Department (Riverside Sheriff's Dept.), *Forensic Mapping System Overview*, San Jacinto, CA, March 2005
- OCSD Major Accident Reconstruction Team Quarterly Training, *Vetronix Crash Data Retrieval System Overview*, Laguna Hills, CA, October 2004

- California Association of Accident Reconstruction Specialists Annual Conference, CA²RS versus Bikes and other in-line wheeled devices: *Applicable Vehicle Code Laws*, Anaheim, CA, October 2003*
- Cox Communications Field Safety Team Meeting, *Collision Avoidance, On-the-job Traffic Collision Procedures, Vehicle Code Laws*, Rancho Santa Margarita, CA, October 2003.
- California Association of Accident Reconstruction Specialists, *Coefficient of Friction Determination – Methodology & Special Problems*, Anaheim, CA, August 2003*
- City of San Juan Capistrano Public Works Safety Meeting, *Vehicle Code Laws - Legal Update*, San Juan Capistrano, CA, May 2003
- City of San Juan Capistrano Public Works Safety Meeting, *On-the-job Traffic Collision Procedures*, San Juan Capistrano, CA, September 2001
- City of San Juan Capistrano Public Works Safety Meeting, *Vehicle Code Laws - Legal Update*, San Juan Capistrano, CA, October 2000

Publications and Selected Papers

- ◆ *Fundamentals of Forensic Mapping: What is Forensic Mapping?, Forensic Mapping Equipment, Software, Set up Protocol, Shooting the Scene, Vehicle Damage Documentation, Crime Scene Documentation, Crime Scene Documentation, Troubleshooting, Court Testimony, T³ – Tools, Tips, and Techniques, Glossary of Terms, Appendix*, published by Kinetic Energy Press, 2010, ISBN: 978-0-9716634-0-4
- ◆ *What do you think? – warning sign advisory speeds*, Skidmarks, Fall 2010, Volume 50, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *Crash Data Retrieval Update*, Skidmarks, Spring 2010, Volume 48, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *Crash Data Retrieval Update*, Skidmarks, Summer 2009, Volume 45, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *Crash Data Retrieval Update*, Skidmarks, Spring 2009, Volume 44, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *Total Station Protocol Assures Higher Accuracy*, Collision magazine, Vol. 2 Issue 2, page 98
- ◆ *Crush Jig Simplifies Vehicle Measuring, Helps Juries*, Collision magazine, Vol. 2 Issue 2, page 101
- ◆ *2005 Vehicle Code Updates*, Skidmarks, Spring 2006, Volume 32, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *What is Jaywalking?*, Skidmarks, Spring 2005, Volume 28, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *2004 Vehicle Code Updates*, Skidmarks, Winter 2004, Volume 27, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *Mini-motorcycles and “Pocket Bikes”*, Skidmarks, Summer 2004, Volume 25, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *Right-of-Way Collisions*, Skidmarks, Spring 2004, Volume 24, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *Personal Assistive Mobility Devices*, Skidmarks, Winter 2003, Volume 23, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *Motorized Scooters* - Skidmarks, Summer 2003, Volume 22, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *Blue Headlamps* - Skidmarks, Spring 2003, Volume 21, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *Acceleration and Skid Testing of Police and Fire Apparatus Vehicles –* Skidmarks, Spring 2002, Volume 17, California Association of Accident Reconstruction Specialists (CA²RS).
- ◆ *Equipment used in acceleration and skid testing, and acceleration & coefficient of friction defined –* Skidmarks, Winter 2001, Volume 16, California Association of Accident Reconstruction Specialists (CA²RS).

Professional Affiliations

- ◆ **Accident Reconstruction Communication Network (ARC)** – Basic Member, May 2002 to present
Department member, November 2002 to August 2006
- ◆ **California Association of Accident Reconstruction Specialists (CA²RS)** – Member, March 1999 to present. Board of Directors, October 2001 to 2010. Vice-Chair, October 2002 to December 2006. Chairperson, January 2007 to December 2010, training coordinator January 2009 to present
- ◆ **California State Division, International Association for Identification (CSDIAI)** – Associate Member, June 2009 to present
- ◆ **California Teachers Association (CTA)** – Member, September 2003 to present
- ◆ **International Association for Identification (IAI)** – Associate Member, July 2008 to present
- ◆ **International Network of Collision Reconstructionists (INCR)** – Member, January 2001 to present
- ◆ **Northern California Fraud Investigators Association (NCFIA)** – Member, October 2008 to present
- ◆ **Orange County Traffic Officer's Association (OCTOA)** – Department Member, January 2002 to August 2006
- ◆ **Professional Society of Forensic Mapping (PSFM)** – Full Member, April 2000 to present
- ◆ **Society of Automotive Engineers** – Professional Member, September 2006 to present
- ◆ **Southwestern Association of Technical Accident Investigators (SATAI)** – Member, June 2003 to present
- ◆ **San Diego County Collision Investigators Association (SDCCIA)** – Member, March 2004 to August 2006

NOT FOR DISCLOSURE