

**Cam Cope**  
**Curriculum Vitae**

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**AREAS OF SPECIALIZED EXPERTISE**

<b>Accident Reconstruction</b>	<b>Fire Cause and Origin</b>
<b>Occupant Restraint Systems / Airbags</b>	<b>Fuel Systems Integrity</b>
<b>Nikon Total Station Scene Surveys</b>	<b>Interior Flammability</b>
<b>Crash Data Retrieval GM vehicles</b>	<b>Trucking Accidents</b>
<b>Case Evaluation Vehicle Products Liability / Vehicle Assessment / Defects</b>	

**ACADEMIC EDUCATION**

B.S., Biology/Chemistry, New Mexico Highlands University,  
Undergraduate and Graduate Courses (60 Hours), Texas A & M University,  
Advanced Accident Reconstruction, Texas A & M (80 Hour Course)  
Certified Fire Explosion Investigator (CFEI)  
Certified Fire Investigator Instructor (CFII)  
Certified Vehicle Fire Investigator (CVFI)

**MILITARY**

U.S. Army 1971-1974  
Surgical Research, Walter Reed Army Medical Center,  
Medical and Veterinary Team, Fort Benning Georgia,  
Veterinary Team, K-9 unit, Viet Nam  
Surgical Research, William Beaumont Army Medical Center

**LAW ENFORCEMENT**

College Station Police Department, Reserve Officer, 1985 to 1990  
Police Academy Training-Accident Investigation, Routine Patrol

## **PROFESSIONAL EXPERIENCE**

September 1996 to Present

### **Cam Cope Consulting**

Vehicle and Structural Fire Investigation (Cause and Origin)  
Accident Reconstruction Computer modeling vehicles (EDCRASH-EDSMAC-HVE 2D)  
Case Evaluation and Rapid Response in the Documentation of Vehicular accidents  
Scene Drawings & Diagrams, Inspection of vehicles and research  
Nikon NPL-820 Total Station, AIMS Software  
Product Liability and identification of defective products, testing, and research  
Identification of Occupant Restraint System Usage including airbags and seatbelts  
Crash Data Retrieval (CDR) in GM Vehicles (1996-2001) Retrieval of data 5 sec. pre-impact and 5 sec. post-impact, and also near deployment data (black box data)  
Rollovers, Trucking Accidents, Industrial and Construction Accidents

January 1991 to 1998

### **Engineering Reconstruction Associates**

Accident Reconstruction  
Model building  
Partner with M. Lewis Coody, Registered Professional Engineer, State of Texas #48387  
Assistant Professor Department of Construction Science

January 1992 to September 1996

### **Crowley, Marks, and Douglas**

Accident Reconstruction, evaluation, and research  
Vehicular Fires (Cause and Origin) determination and documentation  
Evaluation and investigation vehicle product liability

January 1985 to January 1992

### **Crowley and Waltman**

Investigation of motor vehicle accidents including the related injuries, fires, occupant restraint systems involving serious injury or death. Fire cause and origin.

## **PROFESSIONAL AFFILIATIONS**

National Association of Fire Investigators (Board Member)	(NAFI)
Certified Fire and Explosion Investigator	(CFEI)
Certified Fire Investigation Instructor	(CFII)
National Safety and Transportation Institute (Board Member)	(NSTI)
National Association of Professional Accident Reconstruction Specialists	
Texas Association of Accident Reconstruction Specialists	(TAARS)
Society of Automotive Engineers	(SAE)
Committee Accident Investigation Practices Standards	
Auto/Pedestrian standards	
Sectional Leader, Gulf Coast Chapter	
American Society of Safety Engineers	(ASSE)
International Association of Fire and Arson Investigators	(IAAI)
National Fire Protection Association	(NFPA)
American College of Forensic Examiners	(ACFE)
Engineering and Technology Board	
Diplomat, Chairman of Engineering and Technology 2000	
Continuing Education Committee and Editorial Review Board	
Texas Board of Private Investigators and Private Security Agencies	
Licensed Private Investigator # A09524	
Texas Association of Licensed Investigators, Inc.	(TALI)
National Association of Legal Investigators (Annual Seminars since 1989)	(NALI)
Certified Legal Investigator	(CLI)
Fire Investigation Association of Alberta (Chapter 38 IAAI)	(FIAA)

## **PUBLICATIONS AND PRESENTATIONS**

Cope, Cam and Bill Camp. "Use of Digital Photography in Investigation." American Trial Lawyers Association Presentation: Chicago, Illinois; July 31, 2000.

Cope, Cam. "Airbag Investigation." *The Legal Investigator – All CLI Issue*. National Association of Legal Investigators; May 2001.

Cope, Cam. "Motor Vehicle Fires and NFPA 921." Test Burning of Vehicles 2001: National Advanced Fire, Arson, and Explosion Investigation Science and Technology: Eastern Kentucky University, Richmond, Kentucky; March 13-17, 2001.

Cope, Cam and Bob Swint. "Airbag Safety & Investigation." *The Forensic Examiner*. May/June 2000.

Cope, Cam and Dennis Andrews. "Low-Speed Rear-End Impact Analysis / Seat Belts / Airbags." ACFE Workshop Presentation: New York City, New York; October 29 - November 1, 1999.

Cope, Cam. "History of Occupant Restraint Systems." ACFE 6<sup>th</sup> National Scientific Academy: Naples, Florida; October 12-14, 1998.

Cope, Cam and Bob Swint. "The Documentation of Vehicles Involved in Accidents." Engineering and Technology, *The Forensic Examiner*. Vol. 7: Sept/Oct 1998.

Cope, Cam. "Investigation of Vehicle Rollover." *Advanced Forensic Civil Investigations*. Lawyers & Judges Publishing Co., 1997.

Cope, Cam. "Restraint System Documentation and Investigation." Presentation at 5<sup>th</sup> National Scientific Academy & Retreat of the American College of Forensic Examiners: San Diego, California; December 11-13, 1997.

Cope, Cam. "Investigation of an Automobile Accident." Presentation at the National Association of Legal Investigator Mid-Winter Conference: Chicago, Illinois; March 1995.

Cope, Cam. "Investigation of a Products Liability Case." Presentation at the National Association of Legal Investigator Silver Anniversary Conference: St. Louis, Missouri; 1992.

Cope, Cam. "Vehicle Documentation." Presentation at N.A.L.I. National Convention: Houston, Texas; 1991.

Cope, Cam. "Accident Investigation Forms," A series of data forms to be used by Accident Investigators.

## **CONTINUING EDUCATION**

“Vehicle Dynamics & Simulation,” Society of Automotive Engineers 2003 World Congress; Detroit, MI, March 5, 2003.

“Vehicle Agressivity & Compatibility in Automotive Crashes,” Society of Automotive Engineers 2003 World Congress; Detroit, MI, March5, 2003.

“Engineering Safety Specifications: Designing for Safety,” Society of Automotive Engineers 2003 World Congress; Detroit, MI, March 3-4, 2003. (16 hours)

“Accident Reconstruction,” Society of Automotive Engineers 2003 World Congress; Detroit, MI, March 4-5, 2003.

“Side Impact, Rear Impact and Rollover,” Society of Automotive Engineers 2003 World Congress; Detroit, MI, March 3, 2003.

“2002 Vehicle Fire, Arson & Explosion Investigation & Technology Seminar,” National Association of Fire Investigators and Fire and Safety Engineering Technology; Eastern Kentucky University, Lexington, KY, September 30 – October 2, 2002. (Instructor)

“2002 National Seminar on Fire Analysis Litigation,” National Association of Fire Investigators and National Fire Protection Agency; Sarasota, FL, August 15-16, 2002. (16 hrs)

“2002 National Fire, Arson & Explosion Investigation Training Program,” National Association of Fire Investigators and National Fire Protection Agency; Sarasota, FL, August 12-14, 2002. (32 hrs)

“A Fire Scene Analysis,” 2001 National Advanced Fire; Eastern Kentucky University, Richmond, Kentucky, March 2002. (16 hrs)

“Engineering Dynamics Corporation-HVE-2D-EDCRASH Reconstruction Course,” Terry Day –PDOF and Damage Profile of Vehicle, Collision Deformation Classification, EDCRASH Input Data; California State University Northridge; Burbank, California, January 21-25, 2002. (40 hrs)

“Investigation of Motor Vehicle Fires,” Lee S. Cole – Peter Klaput Investigation of motor vehicle fires- Where and How did it start – Hands-on investigation of burned vehicles, Elements Necessary for a Fire; Loyola University, New Orleans, Louisiana, December 5-7, 2001.

“Hot Wheels 2001,” Investigating Vehicle Fires - 15 vehicles burned, investigation, methodology, ignition sources, and fuel loads, electrical failures, presentations for vehicles burned; Fire Investigation Association of Alberta; Calgary, Alberta, Canada, September 20-22, 2001.

“NFPA 921 Structural and Vehicles,” Live Vehicle Burn IAAI-Louisville Fire Department.

“Post Impact Fuel Fed Fires,” Tom DeSantis and Lou Molnar (Design Analysis Engineers at Ford Motor Company); “Origin and Cause on Vehicles Fires Utilizing NFPA 921,” Ralph Newell (Newell Investigation); “Electrical Fires in Components-Vehicles,” Chuck Adams (Design Analysis Engineer at Ford Motor Company); “Mechanical Fires – Fuel-Fed Fires - Vehicles,” John Washington and Sunil Sharma (Design Analysis Engineers at Ford Motor Company); “Electrical System,” Mark Hoffman (Ford Motor Company); “NFPA 921,” David Smith; Live Vehicle Burn, Electrical Short in dash, Flammability of Vehicle Fuels tested, Testing of Interior Temperatures, Roof, Engine, Occupant and Truck in Vehicle Fires; Louisville, Kentucky, August 22-24, 2001.

“Fire and Pattern Analysis,” Patrick Kennedy; “Processing the Fire Scene - Diagramming Evidence and Note Taking,” Dennis Smith; “Determining Origin-Heat and Flame Vector Analysis” and “Fire Scene Photography,” Michael Schulz; “Philosophy of Fire Analysis,” Patrick Kennedy; “Electrical,” Daniel Churchward; 2001 National Fire, Arson and Explosion Investigation Training Program; Sarasota, Florida, July 22-27, 2001.

"Texas Association of Legal Investigators, 2001 Convention and Seminar," San Antonio, Texas, June 15-17, 2001. (10 hrs Continuing Education Credit)

“Introduction to Explosives Theory and Explosion Devices,” Tom Thurman, 2001 National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program; Eastern Kentucky University, Richmond, Kentucky, March 13-17, 2001. (8 hrs On-site Explosion and Fire Investigation of burning vehicles)

“Fire Scene Analysis,” 2001 National Advanced Fire; Eastern Kentucky University, Richmond, Kentucky, March 16, 2001. (8 hrs)

“Analysis of Electrical Fires Causes,” 2001 National Advanced Fire; Eastern Kentucky University, Richmond, Kentucky, March 15, 2001. (8 hrs)

“PC-Crash Program, 3D Accident Simulation and Reconstruction,” William Cliff and Hermann Steffan, Detroit, Michigan, March 8-9, 2001. (16 hrs)

"Society of Automotive Engineers (SAE) Accident Reconstruction Conference," Detroit, Michigan, March 5-8, 2001.

“Certified Fire Investigator Instructor Program,” Ron Hopkins, Fire and Safety Engineering Technology; Eastern Kentucky University, March 2001. (8 hrs and examination)

"Crash Data Retrieval Systems," Don Gilman, Vetronix Corporation, WREX2000; College Station, Texas, September 24-29, 2000.

"Lamp Examination for ON or OFF in Traffic Accidents," Gary Stephens, WREX 2000; College Station, Texas, September 24-29, 2000.

"Full Force / Weight Tests of Air-Braked Trucks, Truck Tractor & Semi Trailer Compared to Automobiles," Dave Stopper, WREX 2000; College Station, Texas, September 24-29, 2000.

"Trailer Underride; Conspicuity, Human Factors and Rear Bumpers," Joseph E. Badger, WREX 2000; College Station, Texas, September 24-29, 2000.

"WREX 2000 World Reconstruction Exposition," Accident Reconstruction and Crash Testing; College Station, Texas, September 24-29, 2000 (36 credit hrs)

"Demonstration of Crush Deformation Measurement System and Current Validation of the EDCRASH Computer Program," Tom Curtis, WREX 2000; College Station, Texas, September 24-29, 2000.

"Airbags and Restraint Systems," ATLA Convention, Product Liability A.I.E.G.; Chicago, Illinois, July 31, 2000.

"The Dynamics of Fire Investigation" and "Fire Pattern Development and Fire Analysis," Patrick Kennedy / National Fire, Arson, and Explosion Investigation Training Program; Chicago, Illinois, July 24-28, 2000.

"Chemistry of Fire-Properties of Materials" and "Fire Dynamics for Fire Investigation," Ron Hopkins / National Fire, Arson, and Explosion Investigation and Training Program; Chicago, Illinois, July 24-28, 2000.

"Basic Electricity and the Investigation of Electrical Fires" and "Cause Determination NFPA," Daniel Churchward and Dennis Smith / National Fire, Arson, and Explosion Investigation and Training Program; Chicago, Illinois, July 24-28, 2000.

"Fire Cause and Origin," National Association of Fire Investigators; Chicago, Illinois, July 24-28, 2000.

Society of Automotive Engineers 21st Annual Section Officers Leadership Seminar; Pittsburgh, Pennsylvania, May 20-23, 2000.

"Accident Reconstruction – State-of-the-Art," SAE-TOPTEC; "Frontal Collision Performance," Dagmar Jewkes, Ph.D.; "Side-Collision Performance," Greg D. Stephens; "Rear-Collision Performance & Rollover Reconstruction," Stein E. Husher; Costa Mesa, California, December 9-10, 1999.

"A.C.F.E. National Convention," Engineering and Technology Accident Reconstruction; New York City, New York, October 28-31, 1999.

"Low Speed Accident Reconstruction and Litigation," Lawyers & Judges Convention; Scottsdale, Arizona, October 21-23, 1999.

"Issues in Automotive Crashworthiness Litigation, Trial Evidentiary," A.I.E.G.; Scottsdale, Arizona, September 23-25, 1999.

"Liability Issues," National N.A.L.I. Convention, New Orleans, Louisiana, June 3-5, 1999.

"TTLA's On-Line, Hands-on Investigation Research Workshop," Houston, Texas, April 29, 1999.

"GM Fuel System Integrity," A.I.E.G.; Atlanta, Georgia, April 15-17, 1999.

"Airbag Field Performance: An Engineer's Perspective," Jerome M. Kossar, A.I.E.G., Atlanta, Georgia, April 15-17, 1999.

"Analysis and Investigation of Post-Accident Air Bag Systems," Bill Rosenbluth ASA, A.I.E.G.; Atlanta, Georgia, April 15-17, 1999.

"Evolution of the Lock-for-the-Latch," Kendall Few; "Forensic Analysis of Skip Lock," Alan Cantor; "Biomechanics and Injury Criteria of Child and Adult Dummies," Dr. Tony Sances; "Motor Vehicle Glass," Patrick M. Ardis, A.I.E.G.; Atlanta, Georgia, April 15-17, 1999.

"Vehicle Fires and Restraint Systems;" Atlanta, Georgia, April 15-17, 1999.

"Auto Focus AIEG Airbags, Rollovers, Auto Fires, Inertia Release (Seat Belt Buckles)," San Francisco, California, October 24-26, 1998.

"A.C.F.E. National Convention," Engineering and Technology Accident Reconstruction, Naples, Florida, October 12-14, 1998.

"Facts & Mechanics for Injury Analysis – Pathologists," Patrick E. Besant-thews, M.D., TAARS Annual Meeting; Lago Vista, Texas, June 25-27, 1998.

"Mechanics of Vehicle Rollover," Richard J. Schleuter, P.E., TAARS Annual Meeting; Lago Vista, Texas, June 25-27, 1998.

"Texas Association of Accident Reconstruction Specialists—Accident Reconstruction," Austin, Texas, June 25-27, 1998 (additional seminars not listed since 93).



"Occupant Protection," Society of Automotive Engineers – TOPTEC; Tempe, Arizona, May 20-21, 1998.

"Side Impact," Society of Automotive Engineers – TOPTEC; Tempe, Arizona, May 18-19, 1998.

"Inertially Unlatching Seat Belt Buckles-Proving the Defect," Ben Hogan, Kendall Few and Dr. Tony Sances, A.I.E.G.; San Antonio, Texas, May 14-16, 1998.

"Car Crashes and Occupant Injuries – Frontal Impact – Side Impact – Rollovers," Greg Stephens, Stein Husher and Ed Moffatt, Association for the Advancement for Automotive Medicine; Tempe, Arizona, April 16-17, 1998.

"Car Crash and Occupant Injuries: A Team Approach to Crash Investigation," AAAM, Tempe, Arizona, April 16-17, 1998.

"GM Technical on Airbags," SDM System Operation-Component Locations, Glenn C. Libby, Milford Training Center; Houston, Texas, March 5, 1998.

"A.C.F.E. National Convention," American Board of Forensic Engineering and Technology; San Diego, California, December 11-13, 1997.

"Technology and Performance of Airbags," David Biss, A.I.E.G.; Scottsdale, Arizona, September 25-27, 1997.

"Airbag Litigation," Larry Coben and Don Slavik, A.I.E.G.; Scottsdale, Arizona, September 25-27, 1997.

"Airbag Design and Performance," Society of Automotive Engineers – TOPTEC; Costa Mesa, California, August 14-15, 1997.

"Evaluating and Preparing Vehicle Rollovers," Michael Kerensky, Texas Trial Lawyers Association; Houston, Texas, February 1-2, 1996

"Vehicle Restraint Systems and Airbags," Brent Carpenter, Texas Trial Lawyers Association; Houston, Texas, February 1-2, 1996.

"Vehicle Fuel Tank Integrity," Mick McBee, Texas Trial Lawyers Association; Houston, Texas, February 1-2, 1996.

"Liftgates and Seatbacks," Todd Tracy, Texas Trial Lawyers Association; Houston, Texas, February 1-2, 1996.

"Motor Vehicle Crashworthiness Frontal Collisions: Safety Issues" and "Rollover Crashworthiness," Engineering Demonstrations / Arndt and Associates / A.I.E.G.; Phoenix, Arizona, October 29-30, 1993.

National Association of Fire Investigation Schools (NAFI), Certification Program; Chicago, Illinois, 1990, 1991, 1992.

"Advanced Theories in Automotive Restraint Crashworthiness Cases," Donald H. Slavik, A.I.E.G.; Sonoma County, California, September 26-27, 1992.

"Fire and Explosion Investigation," John A. Kennedy, National Fire, Arson, and Explosion Investigation; Chicago, Illinois, August 18-21, 1992.

"Forensic Fire Science and Technology Laboratory Training," NAFI, Kennedy and Associates; Chicago, Illinois, August 17, 1992.

"Rear Seat Lap-Only Belt Litigation," Jeffery Burke, Ralph Hoar, Ben Kelly, A.I.E.G.; Dallas, Texas, April 25-26, 1992.

"Hands-on Reconstruction Techniques," Fred E. Arndt and Mark Arndt, A.I.E.G.; Phoenix, Arizona, October 11-12, 1991.

"Computerized Reconstruction," Fred E. Arndt, A.I.E.G.; Phoenix, Arizona, October 11-12, 1991.

"A Brief Review of Motor Vehicle Accident Reconstruction," Robert J. Caldwell, P.E., A.I.E.G.; Phoenix, Arizona, October 11-12, 1991.

"Occupant Restraint and Protection," Don Slavik, A.I.E.G.; Denver, Colorado, April 19-20, 1991.

"Advance Fire Pattern Analysis," Ron Hopkins, NAFI; Chicago, Illinois August 8-10, 1990.

"Human Factors and Safety Evaluation," Edward W. Karnes, Ph.D., ATV Adult Toys, A.I.E.G.; Phoenix, Arizona, April 6-7, 1990.

"Chemistry and Incendiary Devices," Rolfe Scofield PhD.; "Searching Diagramming and Evidence Collection at the Fire Scene," Sgt. Gene Deck; "Fire Pattern Analysis," Patrick Kennedy, Ph.D., NAFI Seminar; Chicago, Illinois, September 9-11, 1987.

"Photography In Fire, Arson and Explosion Investigation," Patrick Kennedy, PhD., NAFI Fire School; Chicago, Illinois, September 11, 1987.

"Fire and Safety Engineering Technology," Ron Hopkins, Eastern Kentucky University; Richmond, Kentucky, September 1987.

"Fire, Arson and Explosion Training," A.J. Scardino, Ph.D., and John Odom, P.E., NAFI; Chicago, Illinois, September 17-19, 1986.