



## Complete Accident Reconstruction Service, Inc.

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# CURRICULUM VITAE

**Mike C. Andrews, Ph.D.**

## EDUCATION

**Doctorate in Physics**  
North Texas State University, Denton, Texas  
1987

**Master of Science**  
East Texas State University, Commerce, Texas  
1978

**Bachelor of Science with Honors**  
East Texas State University, Commerce, Texas  
1975

## **PROFESSIONAL EXPERIENCE**

### **Forensic Physicist / Accident Reconstructionist 1995-Present**

Complete Accident Reconstruction Services, Inc. (CARS, Inc.), Granbury, Texas

- Involved in Testing, Analysis, and Reconstruction of Vehicle Accidents.

### **Instructor-CARS 2008-Present**

- Teach courses in:
  - Scientific Crash Reconstruction
  - Damage Analysis - Crush

### **Adjunct Instructor 1995-2001**

Texas A&M University, Texas Engineering Extension Service, Law Enforcement and Security Training Division

Taught courses in:

- Biomechanics
- Scene Drawing & Mapping
- Forensic Photography

### **Adjunct Instructor 2000-2002**

University of North Texas, Physics Dept., Denton, TX

Instructor in Physics

### **Adjunct Instructor 1999-2001**

Brookhaven College, Dallas County Community College, Dallas, TX

Instructor in Astronomy

### **Forensic Scientist/Accident Reconstructionist 1993-95**

Weckerling Scientific Laboratories, Inc., Carrollton, Texas

Performed Failure Analysis and Accident Reconstruction

### **Engineering Consulting 1992-93**

Linac Systems, Waxahachie, Texas

Consulted in design and development of accelerator beam diagnostic equipment

### **Accident Reconstruction Consultant 1982 - 1996**

Soft-Tec Computer Services, Inc., Fort Worth, Texas

Partner in firm engaged in analysis of vehicle accidents and software development for applications in accident reconstruction.

### **Engineering Manager 1989-92**

Olympus Corporation, Clinical Instruments Division, Irving, Texas  
Directed engineering efforts in product support of medical equipment (automated blood chemistry analyzers).

**Director, Research & Development      1987-89**

Radiation Research Associates, Ft. Worth, Texas

Directed activities in computer modeling of radiation transport, predictive models of blast damage, and nuclear radiation database development

**Engineering Specialist      1984-87**

General Dynamics Corporation, Ft. Worth, Texas

Developed and maintained software for analysis of aircraft telemetry and modeling of radar signatures.

**Senior Physicist      1981-84**

Radiation Research Associates, Ft. Worth, Texas

Developed software for computer modeling of radiation transport

**PROFESSIONAL SOCIETIES and ACCREDITATIONS**

- Accreditation Commission for Traffic Accident reconstruction (ACTAR) Accredited Traffic Accident Reconstructionist, #945
- Texas Association of Accident Reconstructionist Specialists (TAARS), Region II Director, Jan 1995 to 2003, Vice-President/President Elect 2003, President 2004-2005, Treasurer 2010-present.
- Member of the ACTAR Governing Board of Directors, 2013-present.
- Licensed Private Investigator (Lic. #A09716)
- Society of Automotive Engineers, member
- American Academy of Forensic Sciences, past member
- American Physical Society, member
- Sigma Pi Sigma National Physics Honor Society, member
- Epsilon Delta Pi National Computer Science Honor Society, member
- Society of Physics Students, member

## **SPECIALIZED TRAINING & EXPERIENCE**

- Numerous TAARS Conferences covering many reconstruction topics, 1993 to present.
- Accident Reconstruction (80 hrs), Texas A & M Extension Service, Criminal Justice Academy, Dallas, Texas, October 1993
- Tractor-Trailer Low Speed Impact Testing (40 hrs), Texas Association of Accident Reconstruction Specialists, College Station, Texas, January 1994
- Forensic Microscopical Infrared Spectrometry (16 hrs), American Academy of Forensic Sciences, San Antonio, Texas, February 1994.
- Low Speed Rear Impact Collision TOPTEC (3 days), Society of Automotive Engineers, Irvine, California, August 1994.
- Tractor-Trailer Impact and Skid Testing (2 days), Texas Association of Accident Reconstruction Specialists, Combined Conference, College Station, Texas, September 1994
- Motorcycle Accident Reconstruction (40 hrs), Texas A&M Engineering Extension Service, Police Training Center, Fort Worth, Texas, February, 1995
- Pedestrian / Bicycle Accident Reconstruction (40 hrs), Texas A&M Engineering Extension Service, Police Training Center, Irving, Texas, March 1995
- Acceleration / Deceleration Comparisons & Tractor / Trailer vs. Passenger Car Crash Tests, Texas Association of Accident Reconstruction Specialists, Texas A&M Engineering Extension Service, Bryan, Texas, October 1995
- Commercial Vehicle Inspection & Accident Investigation (40 hrs), Texas A&M Engineering Extension Service, Police Training Center, Denton, Texas, December 1995
- Conference on Reconstruction and Safety on the Highway (CRASH 97), College Station, Texas, 1997
- Analysis of Low Speed Collisions (40 hrs), Texas A&M Engineering Extension Service Center, Mesquite, Texas, April 1998
- Conference on Reconstruction and Safety on the Highway (CRASH 98), College Station, Texas, 1998
- World Reconstruction Exposition (WREX 2000), College Station, Texas, 2000
- SAE Passenger Vehicle Rollover TOPTEC, Scottsdale, AZ, April 2002
- REC-TEC/mSMAC Training Class, New Orleans, LA, Sept, 2003.
- Vericom VC3000 Training, Dallas, TX, Sept, 2004.
- CDR Training Class, Houston, TX, June, 2004.
- SCARS Conference, Charleston, SC, July, 2005.
- Heavy Vehicle ECM Technology, TAARS Summer Conference, Irving, Texas, June 2005.
- ARC-CSI Conference, Las Vegas, NV, June, 2006.
- F<sup>3</sup>T<sup>2</sup> Combined Conference, Houston, TX, Sept, 2006.

- CDR Conference, Houston, TX, Jan, 2008.
- CDR Update Training Class, Heath, TX, Sept, 2008.
- Heavy Vehicle Air Brake Technology, TAARS Fall Conference, Fort Worth, Texas, September 2009.
- CDR Conference, Houston, TX, Jan, 2010.
- Low Speed Crash Testing at Texas Trial Lawyers Association Annual Meeting, Austin, TX, Dec, 2010 (see publication below).
- ARC-CSI Conference, Las Vegas, NV, May, 2011.
- TAARS/SOAR Combined Crash Conference, Fort Worth, TX, May 2012, Chairman, Organizing Committee.
- Accessing and Interpreting Heavy Vehicle Event Data Recorders, SAE Professional Development Program, Oxnard, CA, Oct. 2012.
- TAARS/SOAR Combined Crash Conference, Fort Worth, TX, May 2013, Chairman, Organizing Committee. TAARS/SOAR Combined Crash Conference, Fort Worth, TX, May 2013, Chairman, Organizing Committee.
- TAARS/SOAR Combined Crash Conference, Fort Worth, TX, Oct 2014, Co-Chairman, Organizing Committee.

## **SELECTED PAPERS & PRESENTATIONS**

### **Accident Investigation & Reconstruction**

- Andrews, Ph.D., Mike. C., *A Report on Five Rear Impact Crash Tests*, 2010 Texas Trial Lawyers Association (TTLA) Annual Conference , Austin, Texas, available through TTTLA February 2011.
- Andrews, Ph.D., Mike. C., *Computer Simulations in Accident Reconstruction*, Texas Association of Accident Reconstructionists - F<sup>3</sup>T<sup>2</sup> Combined Conference, Houston, Texas, Sept. 2006.
- Andrews, M. C. and Dippel, C., *Heavy Vehicle Lane Change Data Report*, Texas Association of Accident Reconstructionists Combined Conference, College Station, Texas, 1994.

### **Physics**

- Andrews, Mike C., *Soft X-ray Appearance Potential Spectroscopy of Terbium*. Bachelors Honors Thesis, East Texas State University, Commerce, Texas, 1975.
- Andrews, Mike C., *Proton Induced K-shell X-ray Production Cross Sections of Z = 22-30*. Masters Thesis, East Texas State University, Commerce, Texas, 1978.
- Andrews, Mike C., *L- and M-shell X-ray Production Cross Sections of Neodymium, Gadolinium, Holmium, Ytterbium, Gold and Lead by 25-MeV Carbon and 32-MeV Oxygen Ions*. Dissertation, North Texas State University, Denton, Texas, 1987.
- Andrews, M. C. and Zander, A. R., *K-Shell Ionization of Ti, Fe, Ni and Zn by 60-150 Kev Protons*, Phys. Rev. A20, 1484, 1979.
- Andrews, M.C., Mehta, R., Duggan, J.L., McDaniel, F.D., Lapicki, G., Miller, P.D., Rayburn, L.A. and Zander, A.R., *Direct Ionization and Electron Capture in M-Shell X-Ray Production by Fluorine Ions*, Phys. Rev. A28, 2722, 1983.