



## 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.), Keller, Texas  
Partner in company involved in Testing, Analysis, and Reconstruction of Vehicle Accidents.

**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, and Lamp  
Examination.

**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 ACREDIATION**

- Texas Association of Accident Reconstructionist Specialists (TAARS), Region II Director, Jan 1995 to 2003, Vice-President/President Elect 2003, President 2004-2005.
- Accreditation Commission for Traffic Accident reconstruction (ACTAR) Accredited Traffic Accident Reconstructionist, #945
- Licensed Private Investigator (Lic. #A09716)
- Society of Automotive Engineers, member
- American Academy of Forensic Sciences, 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**

### **Accident Reconstruction – List of Selected items**

- 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
- 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.
- 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.

### **Forensic Analysis**

- Forensic Microscopical Infrared Spectrometry (16 hrs), American Academy of Forensic Sciences, San Antonio, Texas, February 1994

### **SELECTED PAPERS & PRESENTATIONS**

- 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., Lane Change Data Report, Texas Association of Accident Reconstructionists Combined Conference, College Station, Texas, 1994
- Andrews, Mike C., Soft X-ray Appearance Potential Spectroscopy of Terbium. 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.