



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.
- F³T² 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 TTLA February 2011.
- Andrews, Ph.D., Mike. C., *Computer Simulations in Accident Reconstruction*, Texas Association of Accident Reconstructionists - F³T² 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.