



ALAN O. CAMPBELL, PE, RRC

Structural Engineer, Human Factors and Life Safety Expert

Alan Campbell has over 25 years of experience as a practicing engineer and life safety consultant responsible for accident investigations, building code interpretations, facility condition assessments, and engineering investigations related to accidents, personal injuries, and building code violations. His experience includes the investigation of numerous accidents involving accidental death, dismemberment, and various personal injuries. Mr. Campbell provides engineering support services to many major insurance and adjusting companies and law firms throughout the mid-Atlantic region. This effort is related to collapses, falls, faulty construction, code violations, and expert witness testimony. Along with his engineering practice Mr. Campbell focuses on the investigation of accidents involving personal injuries related to human factors, OSHA/ADA, as well as trips and falls on stairs, ladders and slippery or uneven surfaces. Mr. Campbell's practice also includes the evaluation of structural defects and failures attributable to catastrophic events such as hurricanes, wind storms, and earthquakes. Mr. Campbell has provided expert witness testimony related to human factors, falls on stairs and common areas, building code violations, defective construction, and life safety issues. He has had extensive academic education in the areas of human factors, ergonomics, safety and usability.

Education

- Bachelor of Science in Civil Engineering, The Citadel, 1980
- Master of Science in Applied Psychology with concentration in Human Factors, Clemson University
- Human Factors PhD candidate, Clemson University
- Graduate-level courses at Clemson and Auburn: Ergonomics, Biomechanics, Industrial Safety and Usability

Registration

- National Council of Examiners for Engineering and Surveying (NCEES)
- Registered Professional Engineer in Alabama, Florida, Georgia, Louisiana, Maryland, Michigan, Mississippi, North Carolina, South Carolina, Tennessee, Texas and Virginia.
- Registered Roof Consultant
- 30 Hour OSHA Card

Professional Organizations

- Human Factors and Ergonomic Society
- American Society of Safety Engineers
- American Society of Civil Engineers
- American Society of Testing and Materials
- Roof Consultants Institute
- Charleston Civil Engineers Club (Past President)

Previous Experience

- Applied Building Sciences, Inc.
June, 2004 - Present
- Campbell, Schneider and Associates, LLC,
1999-May, 2004
- Alan O. Campbell, P.E., Inc., 1995-1998
- Kimley-Horn and Associates, Charleston, SC,
1992-1995
- Consulting Engineer, 1990-1992
- Project Manager, Life Cycle Engineering,
Charleston, SC, 1985-1990
- Civil and Structural Engineer, Charleston
Naval Shipyard, Charleston, SC, 1980-1985

PRINCIPAL AREAS OF PRACTICE

- Stair and Ladder Investigations
- Falls on Slippery and Uneven Surfaces
- Parking and Paving Investigations
- Pools, Spas and Showers
- Americans with Disabilities Act (ADA), OSHA, ANSI A117.1, and Building Code Interpretations
- Rail Failures and Deck Collapses

Stair and Ladder Investigations

- Fall on spiral stairs at historic structure, Magnolia Plantation
- Fall on stairs while carrying object, various locations
- Fall on slippery stairs, condominium, Hilton Head Island, SC
- Stair investigation, Hyatt Regency, Hilton Head Island, SC
- Fall on stairs, low lighting, various locations
- Fall on stairs, various commercial and residential structures
- Ladder slide out, various locations

Falls on Slippery and Uneven Surfaces

- Fall on exterior walkway, National Cemetery, Beaufort, SC
- Trips on sidewalks, various locations
- Coefficient of friction testing and slip and fall investigations, numerous locations in South Carolina
- Slip and Fall, Marina Gangway, Little River, SC
- Fall on tile surface, movie theater, Columbia, SC
- Fall from elevated seating area, restaurants, various locations
- Fall on sprinkler heads, 2 incidents, Hilton Head Island, SC

Parking and Paving Investigations

- Fall in unimproved parking area after dark, low lighting, Charleston, SC
- Fall in improved parking areas after dark, low lighting, various locations
- Trip on parking lot wheel stop, multiple locations
- All terrain vehicle accident, Beaufort, SC
- Motorcycle accident on speed bump, Charleston, SC
- Bicycle accidents, multiple locations

Pools, Spas, and Showers

- Fall from elevated pool area, resort rental unit, Hilton Head Island, SC
- Fall in pool shower area, health club, Summerville, SC
- Fall on hot tub patio area, resort hotel, Garden City, SC
- Fall on pool edge, commercial resort, Hilton Head Island, SC
- Falls getting into and out of showers, various locations

Americans with Disabilities Act (ADA), OSHA, ANSI A117.1, and Building Code Interpretations

- Bank parking lot investigation, ADA issues, Walterboro, SC
- Slope investigation, ADA issues, restaurant, Charleston, SC
- ADA ramp investigation, shopping center, Columbia, SC
- OSHA compliance studies, Charleston Naval Shipyard, Charleston, SC
- Fall at construction site, Charleston, SC
- Code interpretations for fire ratings, stair geometry, ADA and proper construction, various locations, residential and commercial applications
- Wheelchair fall, ADA issues stairs descending from elevated landing, resort rental unit, Edisto Island, SC
- Wheelchair fall on ADA access ramp, restaurant, Hilton Head Island, SC

Guardrail Failures and Deck Collapses

- Fall through deck, resort rental unit, Long Island, NC
- Deck collapse with major injuries, commercial building, Port Royal, SC
- Guardrail failures from impact and bodily force, residential and commercial structures, various locations
- Guardrail failure from impact by luggage cart, hotel, Myrtle Beach, SC

Areas Previously Qualified In Court:

- Human Factors
- Life Safety
- Structural Engineering
- Building Codes and Standards
- Construction Defects
- Roof Consulting
- Cost Estimating

Publications and Presentations

- “Does EIFS Really Leak? – Three Critical Non-EIFS Components That Make a Difference,” *RCI Interface*. Roof Consultants Institute, March 2003.
- Presentation to Roof Consultants Institute – Recent Case Studies of Metal Roof Failures, November 2004
- National Business Institute Presentation – Resolving Problems and Disputes on Construction Projects in South Carolina, January 2006
- Himelright Lecture Series – ASCE and The Citadel Engineering Department Case Studies on Forensic Engineering, March 2006
- Property Loss Research Bureau – Collapse Losses: Coverage and Investigations Richmond, VA, June 2007
- Property Loss Research Bureau – Collapse Losses: Coverage and Investigations Columbus, OH, September 2007
- Construction Defect Litigation: From A to Z, North Charleston, SC, May 2008
- “Tips for Expert Witnesses,” *Structure Magazine*, 2009
- South Carolina Claims Managers Association, November 2009
- SCDTAA Construction Law CLE, December 2009
- Ergonomics and Human Factors in the Built Environment – Human Factors Discussion Group, Clemson University, October 2008, March 2010