

TRUCKING ACCIDENT EVALUATIONS



ANALYSIS • CAUSE • STRATEGY

Truck and Trailer combinations are unique vehicles that require specialized engineering knowledge and expertise. **CONSULTING ENGINEERS & SCIENTISTS, INC.** can provide experts to assist you in truck/trailer litigation. Our investigation and analysis gives you the perspective needed to create effective legal strategies and case presentations.

We can supply you with research services and supporting expert testimony. In addition to truck/trailer expertise, we are experienced in other vehicle related accidents, product and premises liability matters and other engineering and scientific disciplines. If you would like to discuss a specific matter, please call **Paul K. Goldberg, P.E. at 610-296-2250.**

Trucks • Trailers • Buses • Agricultural Vehicles • Underground Mine Vehicles • Construction Vehicles

- Mechanical Failure
- Truck Safety & Compliance
- Inspection & Maintenance Analysis
- Runaway Truck/Trailer Crashes
- Brake Failure Analysis
- Tires, Wheels, & Hub Failures

- Electronic Data Records
- Truck/Trailer Rollovers and Jackknives
- Truck/Trailer Load Analysis
- Blind Spots or No-Zones Assessment
- State and Federal Regulation Compliance
- NHTSA, FMVSS & DOT Compliance

- Crashed Truck Cabs
- Suspension Systems
- Brake Drums, Linings, Chambers, Slack Adjustors
- Underride & Override Accidents
- Bio-Mechanical Issues



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Automotive Accident Evaluation & Reconstruction Group

Our Automotive Accident Evaluation and Reconstruction Group has extensive expertise and experience with all types of vehicles, including heavy vehicles such as trucks, buses, semi-trailers, and tractors as well as cars, motorcycles, and all-terrain vehicles.

We have developed a multi-level approach to automobile and truck accidents using accident reconstruction, failure analysis, biomechanical engineering (the relationship of trauma to injury), and roadway analysis in combination to evaluate these matters. Additionally, we have the ability to retrieve and analyze crash data from specific vehicles that were involved in collisions or other accidents. These services will provide you with timely, in-depth analysis of complex engineering and scientific issues in targeted areas, with “one-stop shopping.”

David F. Welker, P.E. is a mechanical engineer with over forty years of experience. Mr. Welker was employed as a design engineer at Ford Light Truck Division, Trailmobile and Freightliner Corporation. At Ford, Mr. Welker worked with F-Series and Econoline vehicles. During his employment at Trailmobile, Inc., he worked with a variety of semi-trailer configurations. While working at Freightliner Corporation, he was involved with truck chassis design, truck frames, fuel systems, suspensions, brakes, axles, drivetrains, and wheel ends. In addition to his trucking experience, Mr. Welker worked in the design of heavy underground vehicles for the mining industry. He was also a consulting engineer in private practice for Freightliner, Oregon DOT, and other corporations. At our firm, Mr. Welker investigates and evaluates heavy vehicles such as trucks, buses, semi-trailers and mining vehicles as well as automotive accidents utilizing accident reconstruction theory, technology, and failure analysis.

Richard C. Moakes, CEng, a mechanical engineer with over thirty-five years of experience, has unique and specific automotive expertise in design and development experience in the automotive airbag industry. As a senior engineer at Breed Technologies, (a leading worldwide manufacturer and supplier of airbag systems to the automotive industry), Mr. Moakes was involved in research and development programs for electronic airbags, sensors, inflators, and smart airbag systems. His development work resulted in patents filed in his name. At our firm, Mr. Moakes' responsibilities include vehicular accident reconstruction (automobiles, trucks, buses, streetcars, etc.), airbag analysis, material handling, workplace layout, machine guarding, and industrial lift truck evaluation. He has evaluated accidents involving vehicles, pedestrians, and motorcycles and has investigated matters concerning golf carts, all-terrain vehicles, watercraft, and power and telecommunication cables.

Andrés Calderón, Ph.D. our biomechanical expert and biomedical expert, has a Bachelor of Science in Mechanical Engineering and a Master of Science and a Doctorate in Biomedical Engineering. He has worked in the fields of biomechanical and biomedical engineering for over nine years. Prior to joining the firm, Dr. Calderón was a lecturer and research fellow in the department of Bioengineering and in the Medical School of the University of Pennsylvania. Dr. Calderón has evaluated numerous cases involving the kinematics (movement) of occupants in an automotive accident, the forces producing trauma and their relationship to the resultant injuries.

Gregg W. Frazier, P.E. is a civil engineer with over thirty-three years of experience in roadway/highway design, inspection, and construction. At our firm, Mr. Frazier evaluates roadway and highway accidents, including roadway construction, work zone safety, as well as railroad grade crossing accidents. He has additional expertise in traffic safety, traffic controls and signals and roadway signage.

Supporting our Automotive Group is **Paul K. Goldberg, P.E.** and **Warren Lieberman** who come from the aerospace industry. Both have expertise in failure analysis that determines how and why components involved in automobile and trucking accidents fail.

Please call us if you have a case or issue that requires the expertise of our Automotive Accident Evaluation and Reconstruction Group. Our goal is to provide a comprehensive, multidisciplinary accident investigation and analysis service that will meet all of your forensic engineering service requirements. For a complete listing of our experts and capabilities, visit us online.

Call us at 610-296-2250 • Visit us at www.ces-experts.com