



MARK N BAILEY
DIRECTOR, SENIOR ENGINEER
PRODUCT, PROPERTY & PREMISES
AND AVIATION GROUPS

MASc, Metals and Materials Engineering, 1988
BASC, Mechanical Engineering, 1985
Registered Professional Engineer (Mechanical
and Metallurgical)
Certified Fire & Explosion Investigator (CFEI)

Mark Bailey, a Director of MEA, joined the firm in 1989. Mr. Bailey is a Senior Engineer and leads the Product, Property and Aviation Groups. He is responsible for determining root and contributing causes of failures in consumer products, industrial equipment, buildings, aircraft, motor vehicles and transport.

Projects have involved material failures, mechanical failures, leaks, floods, fires, explosions, vehicle dynamics, falls and entanglements.

Causes of failures are linked to defective use, maintenance, manufacture or design.

Areas of Specialization

- Product Litigation
- Material failures
- Aircraft and motor vehicle component failures

Professional Affiliations

MEA staff are members of various professional organizations. A current listing can be found on our website www.meaforensic.com.

Select Publications

In addition to his consulting work, Mr. Bailey has conducted research on plastic pipe failures, failure analysis techniques, and high-speed staged collisions.

Bailey MN, Bertoch J (2009). Mechanisms of wheel separations. Occupant Protection: Accident Reconstruction. Warrendale PA: Society of Automotive Engineers.

Bailey MN, Kauffman CF (2006). Failure Analysis of PVC Pipe Joint Separations, Materials Science & Technology 2006. The Minerals, Metals & Materials Society.

Bailey MN, (2005). Application of Hazard and Operability Studies (HAZOP) to Failure Analysis, Materials Science & Technology 2005. The Minerals, Metals & Materials Society

Bailey MN, Lawrence JM, Fowler SJ, Williamson PB, Cliff WE, Nickel JS (2000). Data from five staged car to car collisions and comparison with simulations (2000-01-0849). Accident reconstruction: Analysis, simulation and visualization (SP-1491), pp. 361-385. Warrendale, PA: Society of Automotive Engineers.

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