

Mr. Lewis has spent almost 30 years providing technical analysis and litigation support to individuals, corporations, and governmental agencies on a wide variety of subjects, primarily in the areas of failure analysis, accident investigation, premises liability, and consumer product defects. His extensive training and years of experience have made him an expert in the analysis, application, and interpretation of a wide variety of codes, standards, and regulations, including OSHA worksite regulations and the series of international building codes that typically apply to his investigations of premises liability incidents. In addition to their use in a professional capacity, Mr. Lewis applied his knowledge of building codes for public safety during the four years he served on the Building Standards Commission for his hometown, a city of more than 250,000 residents.

As a registered Professional Engineer (P.E.), and the longest serving consultant in ESi's Dallas office, Mr. Lewis has provided testimony in state and federal courts, both by deposition and at trial, in matters ranging from accidents involving aircraft, construction equipment, and consumer product defects, to patent infringement and betrayal of trade secrets. Prior to becoming a consulting engineer, Mr. Lewis worked for several years in various fields in the construction industry, followed by more than a decade in the analysis and direction of product manufacturing.

Relating to issues involving both premises liability and equipment used in industrial and construction settings, Mr. Lewis is a certified scissor lift, boom lift, forklift and telehandler operator. His experience includes the investigation and analysis of numerous injury and fatality incidents involving such equipment and he has presented a proprietary course on the responsibilities of the multiple parties involved in the design, manufacture, sale, rental, maintenance, use, and operation of scissor and boom lifts for state-approved continuing legal education (CLE) credit.

Education

ME, Mechanical Engineering. University of Texas-Arlington. 2011
BS, Mechanical Engineering. University of Texas-Arlington. 1994

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Areas of Specialization

- Accident Investigation
- Failure Analysis
- Premises Liability
- Consumer Product Defects
- Patent Infringement

Licenses & Certifications

- State of Texas P.E. License 92586

Positions Held

Engineering Systems Inc., Dallas, Texas

- Senior Consultant, 2012 – Present

Materials Analysis, Inc., Dallas, Texas

- Staff Engineer, 2003 – 2011
- Graduate Engineer, 1997 – 2003

Denison Industries, Inc., Denison, Texas

- Design Engineer, 1995 – 1997

Mil-Craft Manufacturing, Inc., Arlington, Texas

- Manufacturing Analyst, 1998 – 1992
- Lead Researcher, 1986 – 1988
- Research Assistant, 1985 – 1986

Continuing Education

- **Certified Telehandler Operator** – Lonestar Forklift, 2024
- **Global Wind Organization - Basic Safety Training Certification (GWO-BST)** –Tech Safety Lines Academy, WINDA ID ML038704US, 2023
- **OSHA 30 Hour General Industry Course** – USF Health, 2022
- **Powered Industrial Truck (PIT) Permit to Operate - Class 4 & Class S** – Forklift Academy, 2022
- **Aerial Boom-Lift 3b & Scissor Lift 3a Operator Certification Blended** – United Academy, ID: 28537395, March 2022; ID: 1532953, June 2015
- **HAZWOPER 40-Hour Initial Training per 29 CFR 1910.120 (e) & Title 8CCR 5192(e) (3)(A)** – Compliance Solutions Occupational Training, 2021
- **OSHA 30-Hour Outreach Training for the Construction Industry, USF Health** – Teledyne Continental Motors Aviation Technician Advanced Training Program, 2019
- **Lycoming Engine Service and Tear-Down Course**

Professional Affiliations/Honors

ASTM International

- Member – Multiple Committees

Municipal Service

- Building Standards Commission City of Plano, Texas
- Commissioner, 2016 - 2020

Patents

- U.S. Patent No. 10,428,480 B2, Issued October 1, 2019, Snow Melter Machine

Presentations

“Standards for Powered Work Lifts,” **M.A. Lewis**, CCE Session presented at The Dallas Claims Association (DCA) Monthly Luncheon Meeting, Grapevine, TX; May 3, 2023.

“The Little Plane that Could: Failure Analysis of a Robust Turbine Engine,” D.E. Alexander, R. Baron, **M.A. Lewis**, C. Smith, P. Umberger, E. Wright, presented at the Materials Science & Technology Conference, Portland, OR; September 30, 2019.

“Advanced Forensic Technologies: A Symphony of Sciences,” **M.A. Lewis**, CE session presented at The Institutes CPCU Society 1-Day Symposium, Dallas, TX, August 29, 2017.

“Powered Work Lift Incidents: Defining the Exposure of the Potentially Liable Parties,” **M.A. Lewis**, CE session presented at The Farmers Insurance, East Zone Loss Control Division, Business Insurance, Austin, TX, February 2017.

“Symposium on Failure Analysis,” **M.A. Lewis**, presented at ASM International, North Texas Chapter, Dallas, TX, January 2013.