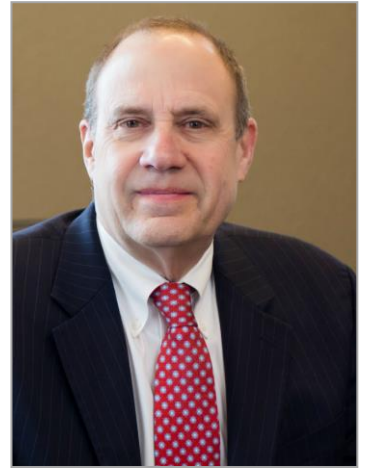




Advanced Engineering Investigations

JOHN M. (JAY) FREEMAN, JR., MS, PE, CFEI

Mr. Freeman has over 44 years of forensic experience and is a nationally recognized engineer specializing in gas appliances and natural gas and propane explosions. He is an expert in carbon monoxide poisonings, flammable liquid fires, and explosions. He has testified in state district courts and United States District Courts throughout the United States. Mr. Freeman is a Founder of AEI Corporation and a Senior Project Engineer.



LICENSURE & EDUCATION

Licensed Professional Engineer in Arkansas and Colorado

MS, Mechanical Engineering, University of Denver, 1973

BS, Mechanical Engineering, University of Denver, 1969

Certified in Hazardous Waste Operations and Emergency Response (HAZWOPER) OSHA 29 CFR 1910.120(e)

Certified in DOT Haz-Mat Transportation, 49 CFR 172, 704 (1-4)

Certified Fire and Explosion Investigator (CFEI), 2010

WORK HISTORY

Founder & Senior Project Engineer, *AEI Corporation*, 2021 to Present

President, *AEI Corporation*, 2005 to 2021

Principal Engineer, *Western Engineering & Research Corporation*, 1997 to 2005

Principal, *Freeman Engineering, Inc.*, 1986 to 1997

Principal Engineer, *Fay Engineering Corporation*, 1976 to 1986

Chief Engineer, *Solar Energy Research Corporation*, 1976

Engineer, *Merrick and Company*, 1975 to 1976

Vice-President, *Solar Energy Research Corporation*, 1973 to 1975

Graduate student and research assistant, *Denver Research Institute*, 1971 to 1973

Combat Engineer, United States Army, 1970 to 1971

GAS AND COMBUSTION EQUIPMENT

Mr. Freeman is an expert in gas appliances (furnaces, water heaters, grills, and boilers). He is an expert on gas control valves and regulators for both propane and natural gas as well as propane cylinders, tanks, and valves. Mr. Freeman has conducted over 250 investigations of carbon monoxide poisonings related to gas and combustion equipment. He has investigated over 1,000 explosions and fires. Mr. Freeman is a member of 32 Underwriters Laboratories Technical Panels for standards dealing with chimney and venting, furnaces and heating equipment, and solid fuel appliances.

AWARDS AND ACCOMPLISHMENTS

Invited speaker on gas explosions and carbon monoxide at numerous seminars.

Mr. Freeman was co-inventor of US Patent No. 4,003,365 "Structure for Collecting Solar Energy"

PUBLICATIONS

List available on website, www.AEIengineers.com

AFFILIATIONS

National Fire Protection Association (NFPA)

American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)

American Society of Mechanical Engineers (ASME)

International Association of Arson Investigators (IAAI), Colorado and International Sections

National Propane Gas Association (NPGA) Technology, Standards & Safety Committee Member

Member of 32 Standards Technical Panels, Underwriters Laboratories, Chimney and Venting, Furnaces, Solid Fuel Appliances

Member of the National Association of Fire Investigators (NAFI)