

Bison . . . licensed, degreed, certified, and professional.



Bison Engineering Inc.

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3423 Rivers Edge Trail, Kingwood (Houston), Texas 77339

Areas of Expertise

Failure Analysis
Forensic Engineering
Fire and Explosion Investigation
LPG Gas Ignition and Explosion
Propane Fire and Explosion
Natural Gas Fire and Explosion
Electrical Engineering
Electrical Failure
Electrocution and Electrical Contact
Mechanical Engineering
Pipelines and Piping Investigation
Carbon Monoxide Poisoning Incidents

Metallurgical Engineering
Industrial Accidents & Explosion
Origin and Cause Investigation
Gas Equipment and Appliance
Accident Reconstruction
Computer Graphics
Laboratory Testing
Building Codes
Soil Gas Migration
Lightning Strikes
Automobile Equipment Failure
Pump Failure

Experts

DAVID W. HELDENBRAND, P.E. *Consulting Engineer, Civil and Environmental*

- o B.S. in Civil Engineering and a B.A. in Environmental Biology from the University of Colorado
- o More than 25 years experience in the engineering and construction field
- o Experience in the engineering and operation of gas facilities, failure analysis, engineering and construction
- o Professional Engineer registered in the State of Texas

JEFFREY W. HAUTANEN, P.E. *Consulting Engineer Electrical*

- o Degree in Bio-Medical Engineering from Texas A&M University
- o Over 15 years of professional experience as a consulting engineer
- o Expertise in investigation of electrical and electronic failures, electrical contacts, fire scene investigations, impact biomechanics and accident reconstruction
- o Lead engineering support in the investigation of many major industrial catastrophic events which include petrochemical plant explosions and fires, gas compressor station fires, pipeline ruptures, coal drying process facility fires, and warehouse fires
- o Provided investigative services with expertise in process/ instrumentation, power distribution, and electrical machinery
- o Licensed Professional Engineer (by examination) in Electrical Engineering

RANDALL K. KING, PhD., P.E. *Mechanical Design, Operation, and Failures Accident Investigation and Reconstruction*

- o PhD in mechanical engineering from Oklahoma State University
- o Over 25 years in the oilfield, automotive and fluid power industries
- o Engineering career in the oilfield and automotive industries, designing and developing innovative mechanical components and high-pressure equipment
- o Holds eleven patents with an additional seven patents pending

JEFFREY S. WINSHIP *Computer Graphics Consultant, Houston, Texas*

- o Over 12 years experience developing computer graphics and animation for presentations, courtroom exhibits and demonstrative evidence
- o Expertise in refinery/plant incidents, auto accidents and other mechanical failures
- o Outstanding technical assistance in the acquisition, translation and graphical representation of field and test data