



TECHNICAL PRESENTATION
May 10, 2023



Percent at Fault Assignment in Forensic Engineering

Presented by Mr. David Eastwood, P.E., D.GE, DFE, C.A.P.M., F.PTI, F.FPA, F.ASCE with Geotech Engineering and Testing

BIO: Mr. Eastwood has practiced consulting engineering for about 47 years, serving in key technical project management and administrative roles. His specialties are in geoforensics, geotechnical, environmental and materials engineering. Mr. Eastwood's experience in these functions include a wide range of project types, ranging from public infrastructure,

public works, industrial facilities, commercial developments, residential developments to power plants, dams and marine terminals. Mr. Eastwood conducts training in geotechnical, environmental, materials and geoforensic engineering for many agencies and associations. David Eastwood is the past President of Houston Chapter of Texas Council for Engineering Laboratories. Furthermore, he is the founder and past president of Foundation Performance Association, an organization specializing in foundation failure evaluation. In addition, Mr. Eastwood has been certified as a Corrective Action Project Manager with the Texas Commission on Environmental Quality (TCEQ). Mr. Eastwood is the past President of the Academy of Distinguished Civil & Environmental Engineers at the University of Houston, Cullen College of Engineering. Mr. Eastwood is also a 2017 Member of Distinguished Alumni of College of Engineering at the University of Houston Cullen College of Engineering. Furthermore, Mr. Eastwood has been accepted as an Academy of Geo-Professionals (AGP) as a Diplomate, Geotechnical Engineer Fellow Member. In addition, he has been accepted as an American Society of Civil Engineers (ASCE) Fellows Member. Mr. Eastwood is also a Fellow with Post-Tensioning Institute (PTI). Mr. Eastwood received his Bachelor and Master Degrees in Civil Engineering from University of Houston in 1977 and 1978, respectively.

ABSTRACT: Mr. David Eastwood, P.E., D.GE, DFE, C.A.P.M., F.PTI, F.FPA, F.ASCE with Geotech Engineering and Testing will discuss the Percent at Fault Assignment in Forensic Engineering. Many clients want to know the percent at fault with a party in a lawsuit. The example project is a roadway in Texas that has experienced significant distress. Geotech Engineering and Testing (GET) was engaged to evaluate the causation for distress of the roadway. GET evaluated the causes of distress by design, construction, materials used in construction and wear and tear such as drainage and trees. Percent at fault was assigned to the parties involved. The presentation will outline the steps GET took to assign percent at fault.

PREVIOUS FPA PRESENTATIONS BY MR. EASTWOOD:

[March 2023](#) – Case History in Mobile Crane and Pump Truck Failure

[December 2022](#)—Geotechnical Conditions in Design and Construction of Bridges

[January 2020](#) – Geotechnical Considerations in Design and Construction of Tilt-Up Buildings and Parking Lots

[January 2019](#) - Geoforensic Investigation of a Storage Dome Collapse at a Plant in Louisiana

[April 2017](#) - Foundation Repair Techniques for Lightly Loaded Foundations in Texas

[July 2016](#) - Geotechnical Considerations for Soil Stability, Ditches, Embankment and Detention Ponds



[February 2014](#) - Simplified Method for Design of Shallow Drilled Shafts Subject to Light Loading in Expansive Soils

[September 2007](#) - Recommended Practices for Design and Construction of Swimming Pools in Houston

[January 2003](#) - ASCE Paper Presentation - "Recommended Practice for the Design of Residential Foundations."

[June 2001](#) - State of Practice of Geotechnical Engineering Design of Custom Homes in the Houston Area between 1990 and 2000

FOR ALL PAST FPA PRESENTATIONS, [CLICK HERE](#).