

RESUME

R. Michael Gray, P.E.
Age: 57
Telephone: 281-358-1121

Education

B.S. Aerospace Engineering, University of Texas, 1970
Soil Mechanics and Foundation Design, University of Houston, 1974
Steel Design Seminar (1974), United States Steel Corporation
Approximately 400 hundred classroom hours in seminars covering various aspects of home inspection

Professional Licenses	Professional Memberships
Texas Registered Professional Engineer (72949)	Professional Member - American Society of Civil Engineers
Licensed Professional Real Estate Inspector (895)	Texas Section – American Society of Civil Engineers
SBCCI Registered One and Two Family Dwelling Inspector (4700)	Foundation Performance Association (Structural Committee and Deflection Subcommittee)
	Southern Council of Building Inspectors
	Houston Association of Real Estate Inspectors
	Professional Member - Post-Tensioning Institute
	The Structural Institute
	Texas Association of Real Estate Inspectors

Professional Experience

Field Engineer/Construction Superintendent: I have two years experience as a field engineer and construction superintendent. Projects included single family homes and a small amusement park.

Structural Design Engineer: I have four years experience as a structural design engineer. Projects included offshore oil and gas platforms. These projects included steel, reinforced concrete and wood structures. My duties included conceptual design, detailed design, calculating dead and live loads, and foundation design and analysis.

Project Management: For ten years I served in project management in various capacities including Project Manager, Manager of Project Administration and Manager of Project Development. Specific projects included floating drilling vessels, offshore platforms and onshore oil and gas facilities.

Real Estate Inspection: Since late 1986 I have worked full time as a structural engineer and real estate inspector. My work involves the structural and mechanical inspection of residential buildings and small commercial buildings such as office buildings, warehouses, strip shopping centers and industrial buildings. During this time I have inspected over 8000 structures. In addition to individual clients, I have provided consulting services to Friendswood Development, Life Forms Homes, Calli Homes, Creekstone Custom Homes, David Weekly Homes, Ashton Woods Homes, Hammond Homes, Village Homes and Plantation Homes.

Seminar Speaker: I have been a seminar leader on single family home foundation performance at seminars sponsored by the Texas Association of Real Estate Inspectors, Texas A&M University and the Southern Council of Building Inspectors. I have also presented papers on residential foundation performance evaluation to the Foundation Performance Association, the Houston Branch of the Texas

Association of Real Estate Inspectors, the American Society of Construction Analysts and a Pillar to Post home inspection franchise.

Training Specific to Foundation Performance Evaluation

Seminars:

- Soil Mechanics and Foundation Design (University of Houston - 1974)
- Current Practices and Advancements of Post-Tensioned Residential Slab-on-Ground (Post-Tensioning Institute – 1998)
- Concrete Slabs-on-Ground (American Concrete Institute – 2002)
- Residential Foundation Evaluation (approximately 120 hours Texas Association of Real Estate Inspectors and Southern Council of Building Inspectors)
- Soil Structure Interaction Seminar of 1994 (Foundation Performance Committee)
- Soil Structure Interaction Seminar of 1996 (Foundation Performance Committee)

Technical Papers Concerning Residential Foundation Performance Evaluation Authored by R. Michael Gray, P.E.

- *A Structural Analysis Approach to Residential Foundation Performance Evaluation*; October 2001, Fall Meeting, Texas Section, ASCE, Waco, Texas
- *Using Slab-on-Ground Elevation Measurements in Residential Foundation Performance Evaluation*, October 2003, Fall Meeting, Texas Section, ASCE, Dallas, Texas
- *Using Face Numbers to Estimate Foundation Distortion*, (in progress)
- *An Analytical Method for Relating Visible Damage to Foundation Deflection*, (in progress)