



BRIAN C. EUBANKS, M.S.C.E., P.E., D.F.E.

Principal Structural Engineer
brian@pseglobal.com

December 12, 2018



PROFESSIONAL EXPERIENCE

Paragon Structural Engineering, LTD.

Principal Structural Engineer (August 2004– Present)

As the founder and Principal Structural Engineer for Paragon Structural Engineering, LTD. (PSE), Mr. Eubanks leads a technical staff comprised of professional engineers, graduate engineers, project managers, and field technicians in the structural design and forensic investigation of planned and existing structures. Mr. Eubanks' structural design services include analysis and engineering of large, custom single-family residences, multi-family apartment/condominium complexes, low-rise commercial facilities, warehouses and ancillary structures (retaining walls, screen walls, and swimming pools) utilizing a variety of building materials including dimensional lumber, engineered wood products, rolled steel, light-gauge steel, CMU, masonry, and cast-in-place concrete. Mr. Eubanks' design projects include the following types of structural systems: conventional/post-tensioned ground supported foundations, conventional/post-tensioned elevated foundations, pier-and-beam elevated foundations, wood/steel/CMU superstructures, masonry/concrete/CMU ground-supported or elevated retaining walls, mechanically stabilized earth retaining walls, gabion retaining walls, ground-supported or elevated screen walls, and ground-supported or elevated pools. Mr. Eubanks also performs construction phase observations of the aforementioned structural systems to verify design compliance. Projects also include performing design of remedial work for the aforementioned types of structural systems. Mr. Eubanks has performed engineering designs for thousands of residential and low-rise commercial structures and hundreds of retaining walls, screen walls, and pools.

Mr. Eubanks' structural forensic services include investigations concerning soil-structure interactions, performance of structural systems, evaluations of building envelopes, and determination of cause, origin, and extent of peril damage. Soil-structure interaction assessments include claims relating to design, construction, historic/current site effects, and moisture source influences. Structural system assessments include claims relating to patent or latent design and construction issues. Building envelope assessments include claims related to roof coverings, veneers, flashing, and weather resistive barriers. Peril assessments include claims relating to hurricane damage, tornado damage, lightning strikes, earthquakes, explosions, fire damage, and vehicle-structure collisions. Mr. Eubanks performs site investigations and devises protocols for site-specific investigative tests that may include relative elevation surveys, geotechnical borings, geophysical resistivity surveys, ground-penetrating radar surveys, groundwater monitoring, water chemical analysis, test pit excavations, material strength tests, and water application/infiltration tests. His typical projects include single-family residences, multi-family apartment/condominium complexes, commercial facilities, and warehouses as well as ancillary structures such as retaining walls, screen walls, and swimming pools. Mr. Eubanks has performed hundreds of forensic investigations and he has authored dozens of expert reports for use in mediation, arbitration, and/or litigation. In addition, Mr. Eubanks has provided expert witness testimony in dozens of mediations, arbitrations, and court cases.

Bryant Consultants, Inc.

Director of Structural Engineering (January 2009 – June 2010)

As Director of Structural Engineering for Bryant Consultants, Inc. (BCI), Mr. Eubanks lead teams comprised of professional engineers, graduate engineers, project managers, field technicians, laboratory technicians, and contractors in the forensic investigation of planned and existing structures. Mr. Eubanks' structural forensic services included investigations concerning soil-structure interactions, performance of structural systems, and determination of cause, origin, and extent of peril damage. Soil-structure interaction assessments include claims relating to design, construction, historic/current site effects, and moisture source influences. Structural system assessments included claims relating to patent or latent design and construction issues. Peril assessments included claims relating to tornado damage, lightning strikes, explosions, fire damage, and vehicle-structure collisions. Mr. Eubanks performed site investigations and devised protocols for site-specific investigative tests that included relative elevation surveys, geotechnical borings, geophysical resistivity surveys, ground-penetrating radar surveys, groundwater monitoring, water chemical analysis, test pit excavations, material strength tests, and water application/infiltration tests. His typical projects included single-family residences, multi-family apartment/condominium complexes, commercial facilities, and warehouses as well as ancillary structures such as retaining walls, screen walls, and swimming pools. Projects also included performing structural design of remedial work for the aforementioned types of projects.



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Foundation Design, LTD.

Principal Graduate Structural Engineer (August 2000 – August 2004)

As Principal Graduate Structural Engineer for Foundation Design, LTD. (FDL), Mr. Eubanks lead a team of graduate engineers, project managers, and field technicians in the structural design and forensic investigation of planned and existing structures. Mr. Eubanks' structural design services included analysis and engineering of large, custom single-family residences, multi-family apartment/condominium complexes, low-rise commercial facilities, warehouses and ancillary structures (retaining walls, screen walls, and swimming pools) utilizing a variety of building materials including dimensional lumber, engineered wood products, rolled steel, light-gauge steel, CMU, masonry, and cast-in-place concrete. Mr. Eubanks' design projects included the following types of structural systems: conventional/post-tensioned ground supported foundations, conventional/post-tensioned elevated foundations, pier-and-beam elevated foundations, wood/steel/CMU superstructures, masonry/concrete/CMU ground-supported or elevated retaining walls, mechanically stabilized earth retaining walls, ground-supported or elevated screen walls, and ground-supported or elevated pools. Mr. Eubanks also performed construction phase observations of the aforementioned structural systems to verify design compliance. Projects also included performing design of remedial work for the aforementioned types of structural systems.

PROFESSIONAL LICENSES

State of Texas	Professional Engineer #96528
State of Alabama	Professional Engineer #30267
State of Arizona	Professional Engineer #67868
State of Arkansas	Professional Engineer #15828
State of Colorado	Professional Engineer #48017
State of Florida	Professional Engineer #76572
State of Georgia	Professional Engineer #38353
State of Louisiana	Professional Engineer #38384
State of Mississippi	Professional Engineer #25014
State of New Mexico	Professional Engineer #21906
State of Oklahoma	Professional Engineer #24075
NCEES National Registration	Professional Engineer #35441

EDUCATION

Georgia Institute of Technology (Atlanta, GA)

Master of Science in Civil Engineering, 2000

Bachelor of Science in Civil Engineering, 1999

PROFESSIONAL COMMITTEE MEMBERSHIPS

American Concrete Institute

Design of Slabs-on-Ground (360)

American Society of Civil Engineers

Committee on Forensic Investigations

Residential Foundation Investigation and Design Subcommittee (ASCE-Texas Section)

ASTM International

Concrete and Concrete Aggregates Committee (C-09)

Forensic Engineering Committee (E-58)

Soil and Rock Committee (D-18)

Wood Committee (D-07)

Construction Research Center, The University of Texas at Arlington

Construction Research Advisory Committee



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PROFESSIONAL COMMITTEE MEMBERSHIPS (CONTINUED)

Dallas Builders Association

Education Committee

International Code Council

North Central Texas Council of Governments

Post-Tensioning Institute

Slab-on-Ground Committee (DC-10)

Construction and Maintenance Subcommittee (DC-10D) of the Slab-on-Ground Committee (DC-10)

Structural Subcommittee (DC-10A) of the Slab-on-Ground Committee (DC-10)

Texas Association of Builders

Attorney Council / Legal Affairs Committee

Codes & Standards Committee

PROFESSIONAL CERTIFICATIONS AND TRAINING

Arbitrator, Construction Arbitration Program for Home Warranty Disputes (CAP-Home)

Board Certified Diplomate in Forensic Engineering, National Academy of Forensic Engineers, a CESB Member Board

Building Envelope Trained (BET-1), Building Envelope Science Institute

Building Envelope Certified (BEC-2), Building Envelope Science Institute

Commercial Roofs Inspector, Haag

EIFS Inspector / Moisture Analyst / QC Inspector, Exterior Design Institute

Ladder Safety (Single, Extension, Articulated, and Step), American Ladder Institute

Model Law Engineer, National Council of Examiners for Engineering and Surveying (NCEES)

Post-Tensioning - Level 1 (Field Installation, Unbonded), Post-Tensioning Institute (PTI)

Residential Roofs Inspector, Haag

Rope and Harness for Steep Roof Slopes, Safety Services Company

Safety Assessment Program (SAP) Evaluator (ATC 20-1 and ATC-45), California Office of Emergency Services

Thermographer - Level 1, Infrared Training Center

Wind Damage Inspector, Haag

Wind Storm Inspector, Texas Department of Insurance (TDI)

PROFESSIONAL ASSOCIATIONS

American Concrete Institute

American Society of Civil Engineers

American Wood Council

ASTM International

Building Envelope Science Institute

Construction Research Center, The University of Texas at Arlington

Dallas Builders Association

Dallas Claims Association

Exterior Design Institute

Greater Houston Builders Association

International Association of Certified Home Inspectors

International Code Council

National Academy of Forensic Engineers

National Association of Home Builders

National Society of Professional Engineers

Post-Tensioning Institute

Structural Engineering Institute

Structural Engineers Association of Texas



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PROFESSIONAL ASSOCIATIONS (CONTINUED)

Texas Association of Builders
Texas Society of Professional Engineers
The Masonry Society

PROFESSIONAL PUBLICATIONS

Construction and Maintenance Manual for Post-Tensioned Slab-on-Ground Foundations, Fourth Edition,
(PTI DC10.2-17)
Design of Post-Tensioned Slab-on-Ground Foundations, User Guide, In Progress (PTI DC10.1-TBD)
Guide for the Performance Evaluation of Slab-on-Ground Foundations, (PTI DC10.8-18)
Foundations on Expansive Soils: Design Considerations, Evaluation, and Remediation - HalfMoon Education, Inc.
(2018)
Guide to Design of Slabs-on-Ground, In Progress (ACI 360R-TBD)
Guidelines on Failure Investigation, In-Progress (ASCE)
Guideline for Sampling on Construction Defect Investigations, In-Progress (ASCE)
Preconstruction Survey Guide, In-Progress (ASCE)
Standard Guide for Forensic Engineering Expert Reports, In-Progress (ASTM)
Standard Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations on Expansive Soils,
2012 (PTI DC10.5-12)
Structural Design for Wood Construction, HalfMoon Education, Inc. (2017 and 2018)

PROFESSIONAL LECTURES, SEMINARS, PRESENTATIONS, AND TRAINING AS A PRESENTER

Future Schedule

Performance Evaluation of Ground Supported Foundations - Forensics Engineering Conference (The University of
Texas at Austin) - February 14, 2019
Structural Design for Wood Construction - HalfMoon Education, Inc. (Oklahoma City) - February 27, 2019 ^{AIA}
Foundations on Expansive Soils: Design Considerations, Evaluation, and Remediation - HalfMoon Education, Inc.
(Oklahoma City) - May 16, 2019 ^{AIA}
Topic TBD - Building Professional Institute (Irving) - May 22-23, 2019
Soil Mechanics, Bearing Capacity and Slope Stabilization - HalfMoon Education, Inc. - TBD 2019 ^{AIA}
Special Inspections Under the International Building Code Chapter 17 - HalfMoon Education, Inc. - TBD 2019 ^{AIA}
Structural Forensic Engineering - HalfMoon Education, Inc. - TBD 2019 ^{AIA}

Past Schedule

Building Envelopes: The Hottest and Worst Trend in Residential Litigation - Shaddock Homes - December 5, 2018
Building Envelopes - On-site Training and Education: CB JENI Homes, Normandy Homes, and Southgate Homes -
December 4, 2018
Foundations on Expansive Soils: Design Considerations, Evaluation, and Remediation - HalfMoon Education, Inc.
(Austin) - November 8, 2018 ^{AIA}
Storm Damage Assessment - Dallas Claims Association, November 7, 2018 ^{TDI}
Building a Better Foundation - 2-10 Home Buyers Warranty (Dallas) - October 17, 2018
Foundations on Expansive Soils: Design Considerations, Evaluation, and Remediation - HalfMoon Education, Inc.
(Houston) - October 11, 2018 ^{AIA}
Structural Design for Wood Construction - HalfMoon Education, Inc. (Houston) - September 13, 2018 ^{AIA}
Structural Design for Wood Construction - HalfMoon Education, Inc. (Lubbock) - August 17, 2018 ^{AIA}
Building Envelopes: The Hottest and Worst Trend in Residential Litigation - Marek Architecture - July 25, 2018 ^{AIA}
Building a Better Foundation - 2-10 Home Buyers Warranty (Denver) - July 2, 2018
Foundations on Expansive Soils: Design Considerations, Evaluation, and Remediation - HalfMoon Education, Inc. (San
Antonio) - June 14, 2018 ^{AIA}
Weather Barriers & Energy Considerations Panel - Dallas Builders Association: Building a Better House Series - June
13, 2018



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PROFESSIONAL LECTURES, SEMINARS, PRESENTATIONS, AND TRAINING AS A PRESENTER (CONTINUED)

Past Schedule (Continued)

Building Envelopes: The Hottest and Worst Trend in Residential Litigation - Dallas Builders Association, Dallas Division - June 7, 2018

Weather-Resistive Barrier Panel Review - Greater Fort Worth Builders Association - June 6, 2018

Building Envelopes: The Hottest and Worst Trend in Residential Litigation - Building Professional Institute (Irving) - May 22, 2018

Building Envelopes: The Hottest and Worst Trend in Residential Litigation - Co Presented with Bush, Rudnicki, Shelton Law Firm to Residential Strategies Dallas-Ft. Worth Custom Builder Meeting - May 10, 2018

Building a Better Foundation - Dallas Builders Association: Building a Better House Series - May 9, 2018

Forensic Analysis of Plumbing Leak Foundation Claims - May 1, 2018 ^{TDI}

Foundations on Expansive Soils: Design Considerations, Evaluation, and Remediation - HalfMoon Education, Inc. (Arlington) - March 28, 2018 ^{AIA}

Building Envelope Litigation - Co Presented with Bush, Rudnicki, Shelton Law Firm to Dallas Builders Association, Metro North Division - January 24, 2018

Uniting Architecture and Structural Engineering - Stocker Hoesterey Montenegro Architects - January 23, 2018 ^{AIA}

Building a Better Foundation - Skoburg Company - January 12, 2018

Structural Design for Wood Construction - HalfMoon Education, Inc. (Austin) - November 30, 2017 ^{AIA}

Building Envelopes: The Hottest and Worst Trend in Residential Litigation - Co Presented with Bush, Rudnicki, Shelton Law Firm to Homebuilders Association of Greater Austin, Williamson County Chapter - November 7, 2017

Forensic Analysis of Plumbing Leak Foundation Claims - Dallas Claims Association, November 1, 2017 ^{TDI}

Construction Litigation: Building a Better Foundation ^{AIA} - Co Presented with Hashimi Law, SwingleCollins & Associates, and 2-10 Home Buyers Warranty - October 26, 2017

Building Envelopes: The Hottest and Worst Trend in Residential Litigation - Co Presented with Bush, Rudnicki, Shelton Law Firm to Dallas Builders Association - October 3, 2017

Building a Better House Series: Strength, Durability, Sustainability to Dallas Builders Association - September 13, 2017

Structural Design for Wood Construction - HalfMoon Education, Inc. (San Antonio) - August 23, 2017 ^{AIA}

Building Envelopes: The Hottest and Worst Trend in Residential Litigation - Co Presented with Bush, Rudnicki, Shelton Law Firm to Greater Houston Builders Association Custom Builders Council - June 15, 2017

Building a Better Foundation - Building Professional Institute (Arlington) - May 24, 2017

Foundations 101 - Ebby Halliday Realtors Preston Keller Office - May 17, 2017

Structural Design for Wood Construction - HalfMoon Education, Inc. (Arlington) - May 3, 2017 ^{AIA}

Forensic Analysis of Plumbing Leak Foundation Claims - April 27, 2017 ^{TDI}

Forensic Analysis of Plumbing Leak Foundation Claims - February 15, 2017 ^{TDI}

Building Envelopes: The Hottest and Worst Trend in Residential Litigation - Co Presented with Bush, Rudnicki, Shelton Law Firm to Dallas Builders Association Volume Builder and Developer Council - January 26, 2017

Building Envelopes - On-site Training and Education: Southgate Homes - January 24, 2017

Building Envelopes - On-site Training and Education: Sumeer Homes - January 16, 2017

Building Envelopes - On-site Training and Education: Sumeer Homes - December 19, 2016

Forensic Analysis of Plumbing Leak Foundation Claims - December 9, 2016 ^{TDI}

Building Envelopes - On-Site Training and Education: Terraces by Windsor - December 8, 2016

Construction Litigation: Building Envelopes - Co Presented with Hermes Law and SwingleCollins & Associates - November 16, 2016

Forensic Analysis of Plumbing Leak Foundation Claims - October 25, 2016 ^{TDI}

Building Envelopes, The New Litigation Frenzy - Dallas Builders Association - September 14, 2016

Keys to Avoiding Litigation - Dallas Builders Association: General Liability Law Seminar - August 25, 2016

Building a Better Foundation - Southgate Homes - June 1, 2016

Evaluation and Remediation of Existing Foundations - Building Professional Institute (Arlington) - May 24, 2016

Storm Resistant Construction - Dallas Builders Association: Building a Better House Series - May 11, 2016

Building a Better Foundation - Dallas Builders Association: Building a Better House Series - April 6, 2016

Building a Better Foundation - Dallas Builders Association: Building a Better House Series - February 11, 2015

Building a Better Foundation - Co Presented with Bush, Rudnicki, Shelton Law Firm to Greater Fort Worth Builders



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PROFESSIONAL LECTURES, SEMINARS, PRESENTATIONS, AND TRAINING AS A PRESENTER (CONTINUED)

Association - April 1, 2014

Building a Better Foundation - Dallas Builders Association: Building a Better House Series - February 12, 2014

Key

AIA American Institute of Architects Continuing Education Approved Course

TDI Texas Department of Insurance Continuing Education Approved Course

COMMUNITY LEADERSHIP

Board of Trustees, Prestonwood Christian Academy

Technical Expert, Texas Board of Professional Engineers

Technical Paper Reviewer, Forensic Engineering 8th Congress, American Society of Civil Engineers, 2018

EXPERT WITNESS DESIGNATION

This curriculum vitae shall not be used for expert witness designation unless an authorized proposal has been executed with this firm.