

Curriculum Vitae

DECEMBER 9, 2020

- NAME:** Edward L. Fronapfel, M.S.C.E., P.E., CBIE, CFCC, EDI, CBCP
Chief Executive Officer
SBSA, LLC
5926 McIntyre Street
Golden, Colorado 80403
303-425-7272
- EDUCATION:** Master of Science in Civil Engineering with emphasis on Structural Engineering, 2000, University of Colorado at Denver

Bachelor of Science in Civil Engineering, 1988, Colorado State University, Fort Collins, Colorado
- PROFESSIONAL COURSES AND SEMINARS AS A PRESENTER IN THE LAST 10 YEARS:** **Full history of professional courses and seminars as a presenter available upon request.**
- Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2020 Courses Taught:
 - CMGT 3177 - 4177 (Combined undergraduate/graduate class) Environmental Systems & MEP, Spring Quarter, 2020
 - Presenter: 2020 Educational Institute, "Lateral Loads and Expansive Soil Design and Construction," Loveland, Colorado, March 6, 2020
 - Presenter: American Society of Civil Engineers Student Chapter at Colorado School of Mines, "Forensics: An Overview of Engineering in the Jurisprudence Setting," November 15, 2019
 - Presenter: HalfMoon Education Seminar, "International Building Code 2018," Cheyenne, WY, August 22, 2019
 - Presenter: CAI, Rocky Mountain Conference, "Impacts of New Development on Existing Associations," May 31, 2019
 - Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2019 Courses Taught:

- XRCM 4420 Construction Estimating, Spring Quarter, 2019
- CMGT 3177 - 4177 (Combined undergraduate/graduate class) Environmental Systems & MEP, Fall Quarter, 2019
- Presenter: National Academy of Building Inspection Engineers (NABIE) Annual Building Inspection Engineering 2019 Annual Conference, “The Use of LiDAR in Forensic Reporting,” Boston, MA, March 2, 2019
- Presenter: HalfMoon Education Seminar, “International Building Code 2018,” Denver, Colorado, December 12, 2018
- Presenter: National Academy of Forensic Engineers (NAFE) Summer Conference - 2018, “Forensics as a Result of Substantial Completion Request,” Buffalo, New York, July 28, 2018
- Presenter: HalfMoon Education Seminar, “International Residential Code 2018,” Denver, Colorado, June 21, 2018
- Presenter: American Society of Civil Engineers Student Chapter at Colorado School of Mines, “Walking the Ethical Tightrope: Engineering, Insurance Claims, and Litigation Case Studies,” March 9, 2018
- Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2018 Courses Taught:
 - CMGT 3100-4420 (Combined undergraduate/graduate class) Construction Estimating, Winter Quarter, 2018
- Presenter: CLE- Institute State Bar of Montana, “Construction Law CLE 2017,” Bozeman, Montana, October 27, 2017
- Presenter: HalfMoon Education Seminar, “International Building Code 2015,” Denver, Colorado, June 9, 2017
- Presenter: SEAK- National Expert Witness Conference, “Arbitrations, Mediations, and Bench Trials: Delivering Effective Testimony,” Clearwater Beach, Florida, May 6-7, 2017
- Merlin Law Group Ski Seminar 2017, “Building Codes and The Reconstruction Environment,” Beaver Creek, Colorado, March 16, 2017
- Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2017 Courses Taught:
 - CMGT 3100-4420 (Combined undergraduate/graduate class) Construction Estimating, Winter Quarter, 2017

- XRCM 4420 Construction Estimating, Spring Quarter, 2017
- CMGT 3177 - 4177 (Combined undergraduate/graduate class) Environmental Systems & MEP, Fall Quarter, 2017
- Presenter: Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, “Construction Mistakes that cost Millions, Forensic Engineering in Construction,” University of Denver, Colorado, October 11, 2016
- Presenter: National Society of Professional Engineers (NSPE), “Forensic Engineering,” Denver, Colorado, September 22, 2016
- Presenter: HalfMoon Education Seminar, “Foundation Damage and Repair: Science, Materials and Techniques,” Denver, Colorado, July 14, 2016
- Presenter: American Society of Civil Engineers Student Chapter at Colorado School of Mines, “Forensics: An Overview of Engineering in the Jurisprudence Setting,” Golden, Colorado, April 8, 2016
- Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2016 Courses Taught:
 - CMGT 3100-4420 (Combined undergraduate/graduate class) Construction Estimating, Winter Quarter, 2016
 - CMGT 3177 - 4177 (Combined undergraduate/graduate class) Environmental Systems & MEP, Fall Quarter, 2016
- Residency Course Lecture, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, “Construction Decisions and Costs, a Forensic Perspective,” October 21, 2015
- Presenter: University of Colorado at Boulder (CU), “Forensic Engineering Responsibility from the Perspective of the Engineer,” March 16, 2015
- Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2015 Courses Taught:
 - CMGT 3100-4420 (Combined undergraduate/graduate class) Construction Estimating, Winter Quarter, 2015
 - CMGT 3177 - 4177 (Combined undergraduate/graduate class) Environmental Systems & MEP, Fall Quarter, 2015

- Presenter: AIA Colorado, "Forensic Analysis," Fort Collins, Colorado, October 22, 2014
- Presenter: Lorman 2014 Construction Management & Design Build Seminar, "Basics of Construction Management Regarding The Ability To Control In A Design-Build Setting," Denver, Colorado, May 20, 2014
- Presenter: 2014 NAHB International Builders Show, "Avoiding Construction Defects: 15 Lessons Learned the Hard Way," Las Vegas, Nevada, February 4-6, 2014
- Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2014 Courses Taught:
 - XRCM 4177 Energy Design for Sustainable Development, Spring Quarter, 2014
 - XRCM 4480 Construction Project Management, Summer Quarter, 2014
 - CMGT 3177/4177 - Environmental Systems/MEP, Fall Quarter, 2014
- Presenter: Colorado Bar Association Continuing Legal Education, Inc., "Disaster Assistance: Construction Law," Denver, Colorado, October 15, 2013.
- Presenter: CAI, Spring Showcase Conference, "Is That Crack Normal," April 4, 2013
- Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2013 Courses Taught:
 - CMGT 3100 and CMGT 4420 (Combined undergraduate/graduate class), Construction Estimating, Fall Quarter, 2013
 - XRCM 4420 Construction Estimating, Fall Quarter, 2013
 - CMGT 3700/4700 Greenbuild LEED, Winter Quarter, 2013
 - CMGT 3177/4177 Energy Design for Sustainable Development, Spring Quarter, 2013
 - XRCM 4177 Energy Design for Sustainable Development, Spring Quarter, 2013
- Presenter: Ralston Valley High School, "Forensic Engineering," Arvada, Colorado, November 29, 2012

- Presenter: HalfMoon Presentation, "Types, Causes and Consequences of Defects and Failures," Denver, Colorado, September 19, 2012
- Co-Presenter: Community Associations Institute (CAI), "Is That Crack Normal?," Plano, Texas, July 27 & 28, 2012
- Presenter: Management Specialists Inc. (MSI), "Water, Water Everywhere - and Controlling Where it Goes," June 15, 2012
- Presenter: Building Enclosure Commission (BEC), "Building Envelope Construction Defects," June 6, 2012
- Presenter: National Association of Housing and Redevelopment Officials (NAHRO), "Site-wide Maintenance Strategies," May 15, 2012
- Presenter: University of Colorado at Boulder (CU), "Forensic Engineering Responsibility from the Perspective of the Engineer," April 23, 2012
- Presenter: Colorado State University (CSU), "Forensics: An Overview of Engineering in the Jurisprudence Setting," April 9, 2012
- Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2012 Courses Taught:
 - CMGT 3120 and CMGT 4480 Construction Project Management, Summer Quarter, 2012
 - CMGT 3100 and CMGT 44420 (Combined undergraduate/graduate class), Construction Estimating, Fall Quarter, 2012
 - CMGT-3177 and CMGT 4177 Energy Design for Sustainable Development, Spring Quarter, 2012
- Presenter: InfraMation 2011, "Thermography & Forensic Investigation for Litigation Clinic," Las Vegas, Nevada, November 10, 2011, 3.0 Hours
- Presenter: InfraMation 2011, "Understanding and Applying RESNET Guidelines for Thermography, Building Thermography Presentation," Las Vegas, Nevada, November 9, 2011, 1.0 Hours
- Presenter: SEAKM Annual Meeting, "Forensic Engineering," Wichita, Kansas, April 15, 2011

- Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2011 Courses Taught:
 - CMGT-2160/4402 Residential Construction Systems, Fall 2011
 - CMGT-4480 Construction Project Management, XRCM, Summer Quarter, 2011
 - CMGT-4177 Energy Design for Sustainable Development, Spring Quarter, 2011
 - CMGT-4177 Online Energy Design for Sustainable Development, XRCM, Winter Quarter, 2011
- Presenter: Wichita ASHRAE Chapter, “Forensic Engineering for Building Inspections,” Wichita, Kansas, November 18, 2010, 2 PDH
- Colorado Association of Home Builders (CAHB), 2010 Rocky Mountain Builders Conference, “Common Construction Defects & Tips for Avoiding Them,” October 7, 2010, 2 PDH
- Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2010 Courses Taught:
 - CMGT-4177 Graduate Mechanical and Electrical Systems, XRCM, Winter Quarter, 2010
 - CMGT-3177-4177 Graduate Mechanical, Electrical and Plumbing Systems, Spring Quarter, 2010
 - CMGT-4480-1 Graduate Construction Project Management, Summer Quarter 2010 and XRCM, Summer Quarter 2010
- Presenter: 2009 ENERGY STAR Summit, Lessons From the Field - Advanced Building Science, “X-Ray Vision For Quality Construction: Infrared Diagnostics for Colorado,” Stapleton, Colorado, December 9, 2009
- Presenter: Central New York ASHRAE Chapter, “Snow Load Failures From the 2003 Colorado Blizzard, Syracuse,” New York November 11, 2009
- Lecturer, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2009 Courses Taught:
 - CMGT-4700-1 Graduate Mechanical Electrical and Plumbing Systems, Spring 2009

- CMGT-4480-1 Graduate Construction Project Management, Winter 2009, Summer 2009 and XRCM, Summer 2009
- CMGT-4405-1 Graduate Residential Construction Systems, Fall 2009
- Presenter: NSPE “Slips, Trips, and Falls Seminar (Part 2),” October 15, 2008
- Presenter: Architectural Engineering Institute (AEI) of the +American Society of Civil Engineers (ASCE), 2008 Building Integration Solutions Conference, “Delivering Effective Testimony and Structural Floors and Design/Construction Issues,” Denver, Colorado, September 24-27, 2008
- Presenter: NSPE “Slips, Trips, and Falls Seminar (Part 1),” September 17, 2008
- Presenter: 17th Annual National Expert Witness Conference, “Delivering Effective Testimony: Arbitrations, Mediations, Judge and Jury Trials,” Hyannis, Massachusetts, June 19, 2008
- Adjunct Professor, Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, 2008 Courses Taught:
 - CMGT-4405-1 Graduate Residential Construction Systems, Spring 2008 (Fill in)
 - CMGT-3700 Undergraduate Mechanical/Electrical/Plumbing
 - CMGT-4700 Graduate Mechanical/Electrical/Plumbing
- Presenter: National Society of Professional Engineers (NSPE), “Construction Defects Part 1 and Part 2,” March and April 2008, 3.0 PDH Presentation time each
- Presenter: University of Colorado Boulder, “Building Systems Seminar, Part 1 of 2 Forensic Engineering Regarding Light Frame Structures and Standards of Care,” February 2008, 1 hour, Part 2, April 2008

**PROFESSIONAL
COURSES AND
SEMINARS AS AN
ATTENDEE IN THE LAST
10 YEARS:**

Full history of professional courses and seminars as an attendee available upon request.

- American Safety Council, Webinar, “Aerial and Scissor lifts,” December 8, 2020
- SunCam Online Continuing Education, Course #425, “Florida Laws and Rules for 2021,” November 17, 2020, 1 PDH

- SunCam Online Continuing Education, Course #390, "Ethics in Design and Oversight," November 17, 2020, 1 PDH
- EZ-pdh.com, Webinar, "Indiana – Statutes, Rules, and Ethics for Professional Engineers," July 23, 2020, 3PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "2018 National Design Specification (NDS) Updates," July 23, 2020, 1.5 PDH
- ASHRAE, 2020 ASHRAE Virtual Conference, Webinars, Live Seminars 45: ASHRAE's Latest Guides to Zero Energy Design," July 1, 2020, 1 PDH
- ASHRAE, 2020 ASHRAE Virtual Conference, Webinars, "Seminar 1: HVAC System Design in Low Load Homes," "Seminar 12: Winners and Winning Solutions from the ASHRAE Great Energy Predictor III Machine Learning Competition," "Paper Session 13: Smart and Efficient Building Envelopes," "Seminar 15: Legionella: Standard 188, Guideline 12 and Other Guidelines," "Seminar 17: Multifamily Buildings: IAQ Issues and Responses," "Paper Session 18: Residential Buildings Air Leakage, Catalog Houses, and Energy Model," "Paper Session 22: CFD Studies and Building End Use Measurement," "Seminar 27: Low-Cost Occupancy Sensors Systems for Residential and Commercial Building HVAC System Controls," "Seminar 28: Oops! We Forgot the Engineers and Designers in the Residential Sector, Which Now Has a "Wicked" IEQ Issue," "Seminar 40: Who Said Thermal Storage Has to be Only in Tanks? Thermal Storage in the Building Envelope," "Seminar 58: Could Electric Energy Storage Systems Be The Answer For Zero Energy Buildings?," June 22, 2020, 11 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Seismic Assessment and Intervention for Historic Structures: An Exemplary Case Study," June 25, 2020, 1.5 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Resilience and What it Means to the Structural Engineer," May 26, 2020, 1.5 PDH
- The Institute for Continuing Education, Webinar, "Elevation Certificates," May 7, 2020, 3 PDH
- The Institute for Continuing Education, Webinar, "FEMA Flood Insurance Mapping Issues," April 30, 2020, 4 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Lintels for Masonry Walls," March 24, 2020, 1.5 PDH

- SEAK, "Expert Report Writing and testifying Training" Nadine Nasser Donovan, Golden, Colorado, March 5, 2020, 7.25 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "ASCE 7-16 Determining Component and Cladding Wind Pressures for Roofs," December 5, 2019
- Dupont Building Knowledge University, "Air Barrier 1 - Choices of Air Barriers for Commercial Building Enclosures," July 25, 2019, 1 PDH
- BNP Media, Live Webinar - R-Value Optimization for Low-Slope Roofs, May 21, 2019, 1 CEU
- Post Tension Institute - Post - Tensioning Level 1 & 2 Unbonded PT Installer and Inspector Certification Workshop, Denver, Colorado, March 30 - April 1, 2019, 18 PDH
- Engineering Services Program, Department of Insurance, Texas, "Windstorm Inspection Orientation Webinar," March 14, 2019, 2 PDH
- National Academy of Building Inspection Engineers (NABIE) Annual Building Inspection Engineering 2019 Annual Conference, Boston, MA, March 1-3, 2019 17.5 PDH
- American Society of Civil Engineers (ASCE), Continuing Education Seminar Week, Panama City, Panama, "Structural-Condition Assessment of Existing Structures," and "Wind Loads for Buildings and Other Structures Using ASCE 7-16," and "Panama Canal Tour," February 11-15, 2019, 32 PDH
- RCI - Annual Conference, RCI Annual Hawaii Winter Workshop, January 14 & 15, 2019, 14 PDH
- SunCam Online Continuing Education, Course #115, "Mechanically Stabilized Earth Structures, Part 1," December 31, 2018, 4 PDH
- SunCam Online Continuing Education, Course #325, "Florida Engineering Laws & Rules," December 31, 2018, 1 PDH
- BNP Media, Webinar, "Metal Exterior Walls," November 14, 2018, 1 PDH
- Apollo PEX, Webinar, "Apollo PEX Training Course," November 8, 2018, 1 PDH
- National Academy of Forensic Engineers (NAFE) Summer Conference - 2018, Buffalo, New York, July 27-29, 2018, 14 PDH

- EZ-pdh.com, Webinar, "Indiana - Statutes, Rules, and Ethics for Professional Engineers," June 4, 2018, 3PDH
- RedVector, Webinar, "2015 International Building Code Essentials - Fire Safety," June 4, 2018, 1 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "2018 IBC and IEBC Significant Structural Changes," May 22, 2018, 1.5 PDH
- American Society of Civil Engineers (ASCE) Technical Presentation, "Geotechnical Engineering Failures - Lessons Learned," April 19, 2018, 1 PDH
- American Society of Civil Engineers (ASCE) Webinar, "Structural Thermal Bridging in the Building Envelope," April 4, 2018, 1 PDH
- National Academy of Building Inspection Engineers (NABIE) Annual Building Inspection Engineering 2018 Annual Conference, San Antonio, TX, February 16-18, 2018 19 PDH
- National Academy of Forensic Engineers (NAFE) Annual Meeting - 2018, "Ethics, Forensic Engineering," Phoenix, AZ, January 12-14, 2018, 14 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Special Inspection for Wood Construction - An Overview for Engineers and Inspectors," December 7, 2017, 1.5 PDH
- SunCam Online Continuing Education Course #228, What Every Engineer Should Know, November 17, 2017, 3 PDH
- RedVector, Webinar, "2015 International Building Code Essentials - Fire Safety," October 25, 2017, 1 PDH
- National Fire Protection Association (NFPA), Classroom Training, "Certified Fire Protection Specialist Primer," Denver, Colorado, October 2-3, 2017, 14 PDH
- SunCam Online Continuing Education Course #187, Heat Loss and Gain for a House, September 15, 2017, 4 PDH
- SunCam Online Continuing Education Course #188, Fundamentals of Site Grading Design, August 24, 2017, 2 PDH
- SEAK, "How to be an Effective Expert Witness," Steve Babitsky, Golden, Colorado, August 4, 2017, 7.25 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Geometry and the Design of Truss Structures," August 3, 2017, 1.5 PDH

- National Council of Structure Engineers Associations (NCSEA), Webinar, "Repair of Construction Defects - Every Project Has Them," July 11, 2017, 1.5 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Special Inspections of Existing Buildings," June 27, 2017, 1.5 PDH
- HalfMoon Education Inc., Seminar, "Engineering Law," April 27, 2017, 6.5 PDH
- American Society of Civil Engineers (ASCE) Seminar, "Forensic Engineering: Tools, Tips, and Lessons From a Case Study Standpoint," April 20, 2017, 1 PDH
- Audio Solution, Webinar, "Time Extension Requests," March 9, 2017, 1.5 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Updated Concrete Repair Code and Companion Guide," March 9, 2017, 1.5 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "The Most Common Errors in Seismic Design & How to Avoid Them," February 7, 2017, 1.5 PDH
- Adcox Group, Inc., Webinar, "Current Changes to Chapter 61G15-18, Chapter 471 Florida Statutes and 455 Florida Statutes," January 17, 2017, 1 PDH
- BD & C University, Webinar, "Roofs and condensation: A Practical Approach for the Design Professional," January 16, 2017, 1 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Evaluation & Instrumentation of Existing Buildings," September 27, 2016, 1.5 PDH
- Pete Fowler Construction Services, Inc, Webinar, "Analyzing Construction Defects," May 26, 2016, 1 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Designing With Post-Tensioned Concrete," May 24, 2016, 1.5 PDH
- American Society of Civil Engineers (ASCE) Webinar, "Alternative Designs for Steel Ordinary Moment Frames," April 28, 2016, 1.5 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Welded Connections: the Good, the Bad and the Ugly," February 23, 2016, 1.5 PDH

- National Academy of Building Inspection Engineers (NABIE) Annual Building Inspection Engineering 2016 Conference, Scottsdale, AZ, February 12-14, 2016 20 PDH
- National Academy of Forensic Engineers (NAFE) Annual Meeting - 2016, "Ethics, Forensic Engineering, Analytical Techniques and Application of Engineering in the Jurisprudence System," Tampa, FL, January 22-24, 2016, 16 PDH
- American Society of Civil Engineers (ASCE) Webinar, "Structural Design of Steel Stairs and Rails," January 21, 2016, 1 PDH
- Durability and Design, Webinar, "Averting Water Problems Overhead: The A-B-C's of a Roofing Program," December 9, 2015, 1 HR AIA
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Calculating Wind Loads for Components & Cladding (C&C)," November 17, 2015, 1.5 PDH
- American Society of Civil Engineers (ASCE) Webinar, "Design Snow Loads for Complex Residential Roofs," October 26, 2015, 1 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "What You Need to Know About the Seismic Peer Review Process," October 6, 2015, 1.5 PDH
- AECDaily, Webinar, "Wine Cellars: Room Construction and Design Considerations," October 1, 2015, 1 PDH
- The Association of Energy Engineers (AEE), Seminar, "Fundamentals of Water Efficiency," Orlando, Florida, September 28 & 29, 2015, 16 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Wind Engineering: Beyond the Code," September 10, 2015, 1.5 PDH
- American Society of Civil Engineers (ASCE) Webinar, "Strengthening Structural Steel Beams," September 2, 2015, 1.5 PDH
- Sika, Seminar, "Repair and Protection of Concrete Parking Garages," July 23, 2015, 1 PDH
- CPE Solutions, LLC, Online Interactive, "An Introduction to HVAC Systems Final Exam," May 31, 2015, 4 PDH

- American Institute of Steel Construction (AISC), Webinar, "Analysis and Design of Chevron Brace Connections with Flat Bar Gussets - Part 2: High Seismic Applications," April 16, 2015, 1.5 PDH
- American Institute of Steel Construction (AISC), Webinar, "Analysis and Design of Chevron Brace Connections, Part 1: Low Seismic and Wind Applications," April 9, 2015, 1.5 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "AWC's 2015 Special Design Provisions for Wind and Seismic - Overview and Changes from Previous Editions," April 2, 2015, 1.5 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Foundation Modeling and Modulus of Subgrade Reaction," March 24, 2015, 1.5 PDH
- PDHLibrary, "Florida Laws and Rules for Engineers (2015)," February 28, 2015, 4 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "The Structural Engineer's Role in Building Community Resilience," February 26, 2015, 1.5 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Practical Solutions to Frequently Asked Welding Questions," February 10, 2015, 1.5 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "2012 IBC, ASCE 7 & 2008 SDPWS Seismic Provisions for Wood Construction," December 4, 2014, 1.5 PDH
- International Association of Certified Home Inspectors (InterNACHI), Webinar, "Introduction to InterNACHI's Standards of Practice," November 9, 2014, 3PDH
- International Association of Certified Home Inspectors (InterNACHI), Webinar, "How to Perform Roof Inspections," November 9, 2014, 4PDH
- International Association of Certified Home Inspectors (InterNACHI), Webinar, "Calculating Envelope Energy Loss," November 9, 2014, 2PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "DoD Minimum Antiterrorism Standards for Buildings," July 22, 2014, 1.5 PDH

- National Council of Structure Engineers Associations (NCSEA), Webinar, "The Analysis of Offset Diaphragms and Shear Walls," June 5, 2014, 1.5 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Structural Fire Resistance - Overview, Codes & Standards Background," April 24, 2014, 1.5 PDH
- National Council of Structure Engineers Associations (NCSEA), Webinar, "Prying Action in the AISC Manual of Steel Construction - Historical Development & Current Usage," February 27, 2014, 1.5 PDH
- National One Coat Stucco Association (NOCSA), "One Coat Stucco: The Most Efficient Stucco System Available," December 31, 2013, 1CES
- National Association of Commercial Building Inspectors & Thermographers (NACBI), Online Course, "Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process - ASTM E2018 Quiz," December 15, 2013, 1 PDH
- National Association of Commercial Building Inspectors & Thermographers (NACBI), Online Course, "History of Electrical Safety," December 15, 2013, 1 PDH
- National Association of Commercial Building Inspectors & Thermographers (NACBI), Online Course, "Introduction to Commercial Property Inspections," December 15, 2013, 1 PDH
- National Association of Commercial Building Inspectors & Thermographers (NACBI), Online Course, "Building Thermography Exam," December 15, 2013, 1 PDH
- National Association of Commercial Building Inspectors & Thermographers (NACBI), Online Course, "Asphalt Pavement - Beyond the Basics," December 15, 2013, 1 PDH
- Infraspction Institute, Online Courses, SuccessIRies 101 - Short Course 101 - "Infrared Thermography - What's Hot in PdM," and SuccessIRies 102 - "IR Thermography for Home & Building Inspectors," December 15, 2013, both total 1 PDH
- Ron Blank & Associates, Inc., Online Course, "One Coat Stucco: The Most Efficient Stucco System Available," December 12, 2013, 1 PDH
- Environmental Solutions Association (ESA), Online Course, "Green Physical Needs Assessment (GPNA)," December 7 & 8, 2013, 16 PDH

- Faegre Baker Daniels LLP, Seminar, "Construction Law Seminar," Denver, Colorado, November 14, 2013, CLE
- American Society of Civil Engineers (ASCE) Webinar, "Petrographic Analysis of Concrete deterioration," September 19, 2013, 1 PDH
- McKissock - Webinar - Professional Conduct and Ethics for Texas Engineering, August 19, 2013, 1 PDH
- Post Tension Institute - Post - Tensioning, Webinar, Inspector Level 2 Re-Certification, June 26, 2013 1.2 CEU
- American Council of Engineering Companies (ACEC), Seminar, "Expert Witness Practices Seminar: The Value of Being an Expert Witness," June 13, 2013, 4 PDH
- Association of Energy Engineers (AEE), Webinar, "Thermodynamics Principal & Practices," June 10 - 13, 2013, 8 PDH
- American Concrete Institute (ACI), Seminar, "Adhesive Anchors: Their Behaviors & Code Design Requirements," Denver, Colorado, May 9, 2013, 8 PDH
- American Institute for Chartered Property Casualty Underwriters (AICPCU), PLRB - Claim Conference 2013: March 17 - 20, 2013
 - Causes of Roof Deterioration: Residential & Commercial
 - Building Codes: Living & Adjusting by the Code
 - Effective Mediation, Arbitration & Appraisal of Property Claims
 - Complex Progressive Property Loss Claims
 - Fracking Procedures & Coverage with First-Party Claims
 - Fire Without a Spark
 - Wind Damage Roof Assessment & Testing
 - Social Media in Casualty Claims Investigation
 - Managing a Complex Suspected Fraudulent Property Claim
- American Society of Civil Engineers (ASCE) Seminar, "Assessing and Dealing with Geotechnical Risk, A Structural Engineer's Dream or Nightmare," Denver, Colorado, February 7, 2013, 1.5 PDH
- SunCam Online Continuing Education Course #025, Laws and Rules, January 23, 2013, 4 PDH

- National Academy of Forensic Engineers (NAFE) Annual Meeting - 2013, "General Topics in Forensic Engineering" and "Ethical Considerations for Forensic Engineers," Newport Beach, CA, January 18-20, 2013, 16 PDH
- Everblue Training, "LEED Green Associate," Denver, Colorado, December 3 -4, 2012, 14 PDH
- National Society of Professional Engineers (NSPE) Web Seminar, "Project Scheduling and Schedule Compression," December 2, 2012, 1.0 PDH
- National Society of Professional Engineers (NSPE) Web Seminar, "The Fundamentals of Finance and Accounting for Engineers," November 30, 2012, 1.0 PDH
- International Association of Certified Home Builders (InterNACHI), "Colorado Home Energy Inspections," Webinar, November 12, 2012
- FLIR Systems, Inc., "Inframation 2012," Orlando, Florida, November 6 - 8, 2012, 18 PDH
- Everblue Training, "Solar PV Installer," Denver, Colorado, October 1 - 5, 2012, 40 PDH
- Lorman Education Services, Webinar, "Noise Control Design for Condominium and Multifamily Dwellings," September 13, 2012, 1.5 PDH
- S.K. Ghosh Associates Inc., Webinar, "Ten Steps in the Design of Post-Tensioned Concrete Slabs," September 5, 2012, 2 PDH
- Lorman Education Services, "Slope Stabilization: Best Practices and Challenges," Webinar, August 31, 2012, 1.5 PDH
- ASHRAE, ASHRAE HVAC Design Workshop: Level II, Atlanta, Georgia, August 9 & 10, 2012, 12 PDH
- HalfMoon LLC, Seminar, "Shadow Foundation Design, Construction, and Repair," Denver, Colorado, May 3, 2012, 6.5 PDH
- American Society of Civil Engineers (ASCE) Seminar, "Earth Retaining Structures Selection, Design, Construction and Inspection," Denver, Colorado, April 19 & 20, 2012, 14 PDH
- Lorman Education Services, Seminar, "Rain Rain Go Away: Drainage Design Fundamentals," January 22, 2012, 1.5 PDH
- InfraMation 2011

- “Finding R-Values of Stud Frame Construction Wall with IR Thermography in a High Diurnal Temperature Cycle Environment,” 0.75 hours
- “Chasing Water with Thermal Imaging,” 0.75 hours
- “Building Science and How IR Thermography Plays a Key Role,” 2 hours
- “Techniques for On-Roof Inspections,” 2 hours
- “Advanced Building Clinic,” 3 hours
- Gypsum Association, GA-600, Fire ASW, November 5, 2011, 2 PDH
- American Institute of Architects (AIA), 2011 BEC Seminar, “Troubleshooting in Design of Construction Details,” Denver, Colorado, September 7, 2011, 3 PDH
- Association of Energy Engineers (AEE), Training Program, “Fundamentals of Building Commissioning,” Long Beach, California, June 14-16, 2011, 20 PDH
- ASHRAE, “HVAC Design Essential Workshop,” Atlanta, Georgia, May 18-20, 2011, 18 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, “Deflection Calculation of Concrete Floor - Immediate: Long-Term Cracking,” May 6, 2011, 1.5 PDH
- National Society of Professional Engineers (NSPE) Web Seminar, “The Fundamentals of Finance and Accounting for Engineers,” April 21, 2011, 1.0 PDH
- SEAK, “Advanced Deposition Skills For Experts,” James J. Mangraviti Jr., Golden, Colorado, March 8, 2011, 2.0 PDH
- SEAK, “Cross Examination of Expert Witnesses - Tactics and Defenses for Attorneys and Expert Witnesses,” James J. Mangraviti Jr., Golden, Colorado, March 8, 2011, 5.25 PDH
- S.K. Ghosh Associates Inc., Transitioning from the 2006 IBC to the 2009 IBC Structural Provisions, February 16, 2011, 8 PDH
- Everblue Training Institute, RESNET - HERS Training Course, Home Energy Rating System, January 24 - 28, 2011, 32 hours of training, 3.2 CEU
- SunCam Online Continuing Education Course #025, Laws and Rules, January 17, 2011, 4 PDH

- National Academy of Forensic Engineers (NAFE) Annual Meeting, Tucson, Arizona, January 14-16, 2011, 8 PDH
- HalfMoon LLC, Seminar, Building Net Zero Energy Homes and Businesses, Denver, Colorado, December 10, 2010, 6 PDH
- CPE Solutions, LLC, Online Interactive, Fire Safety, November 30, 2010, 1 PDH
- CPE Solutions, LLC, Online Interactive, Foundation Walls, November 30, 2010, 1 PDH
- W.R. Grace & Co., Preprufe, Advanced Bond Technology, Workshop, Boston, Massachusetts, August 5, 2010, 8 PDH
- W.R. Grace & Co. , Perm-A-Barrier, Workshop, Grace Perm-A-Barrier Systems, Boston, Massachusetts, August 4, 2010, 8 PDH
- American Institute of Steel Construction (AISC) Seminar, "Effective Steel Design: Step-by-Step Design for Commercial and Industrial Buildings," Denver, Colorado, July 22, 2010, 8 PDH
- American Institute of Steel Construction (AISC) Seminar, "HSS Connection Design, Chapter N: Quality Control and Quality Assurance, and Panel discussion: BIM - A Closer Look at Local Practices," Denver, Colorado, July 21, 2010, 7 PDH
- National Academy of Forensic Engineers (NAFE) Annual Meeting, Orlando, Florida, July 15 - 17, 2010, 8 PDH
- RAM JACK Seminar, Foundation Evaluation and Pile Installation for the RAM JACK SYSTEMS, July 1, 2010, 1 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, An Introduction to ASCE 7-10 Wind Loads, Part III, June 17, 2010, 1 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, "Condition Evaluation of Existing Structures Part 2: Masonry and Wood," June 15, 2010, 1.5 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, "Condition Evaluation of Existing Structures Part 1: General Methods, Concrete and Steel," June 8, 2010, 1.5 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, "An Introduction to ASCE 7-10 Wind Loads, Part I," April 5, 2010, 1 PDH
- Lorman Education Services - "Eichleay Damages and Delay Claims," Teleconference, March 26, 2010, 1.5 PDH

- American Society of Civil Engineers (ASCE) Web Seminar, "Design & Rehabilitation of Foundation on Expansive Soils," March 22, 2010, 1.5 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, "Structural Design of Steel Stairs and Rails," March 3, 2010, 1.5 PDH
- Lorman Education Services - Teleconference, "Shop Drawings and Other Construction Submittals - Legal and Architectural Perspectives," March 1, 2010, 1.5 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, "Lessons From Failures of Pre-Engineered Buildings," December 16, 2009, 1.5 PDH
- Consulting-Specifying Engineer (CSE) Webcast, "IBC Seismic and Wind Load Compliance for Non-Structural Components," December 3, 2009, 1 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, "Deciphering Building Code Provisions for Structural Renovation," December 2, 2009, 1.5 PDH
- National Society of Professional Engineers (NSPE) Web Seminar, "Forensic Engineering," November 17, 2009, 1.0 PDH
- Building Design + Construction Webcast, "Fundamentals of Fenestration: Windows, Doors and Glazing Materials," October 26, 2009
- American Society of Civil Engineers (ASCE) Web Seminar, "Wind and Seismic Retrofit of Wood-Framed Buildings," October 22, 2009, 1.5 PDH
- National Society of Professional Engineers (NSPE) Web Seminar, "Solving the Risks in Green Design," October 15, 2009, 1.0 PDH
- National Society of Professional Engineers (NSPE) Web Seminar, "Ethics Forum Part II: Objectivity, Truthfulness, and Preserving Confidentiality," October 7, 2009, 1.0 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, "Investigation and Repair of Fire-Damaged Framing," September 30, 2009, 1.5 PDH
- Journal of Architectural Coatings, "Air Barrier Systems for Sustainable Masonry Walls," August 20, 2009
- Lorman Education Services - "Managing Post-Construction Claims," Teleconference, August 20, 2009, 1.5 PDH

- Lorman Education Services - "Design Codes and Standards for Noise Control," Teleconference, June 30, 2009, 1.5 PDH
- Post Tension Institute - Post - Tensioning Inspector Level 2 Certification Workshop, Denver, Colorado, June 27 and 28, 2009, 1.2 CEU
- Kawneer Company, Inc., K99-107 "Storefront vs. Curtain Wall," April 8, 2009, 1 LU/HSW
- Lorman Education Services - Web Seminar "Pros and Cons of Cost-Plus vs. Fixed Price Contracts," March 20, 2009, 1.5 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, "Underpinning and Strengthening of Foundations," March 13, 2009, 1.5 PDH
- Building Envelope Technology Inc., "Roof Technology Maintenance and Inspection Training Course," March 2 to 6, 2009, Ontario, Canada, 29.5 CEH for RCI
- Lorman Education Services - Web Seminar, "Implied Obligations in Construction Contracts," February 27, 2009, 1.5 PDH
- NSPE - National Society of Professional Engineers The Hidden Risks of Green Construction: Why Moisture and Mold Problems are Likely Webinar, February 24, 2009, 1.0 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, Prepare for the California Structural Engineering Seismic Examination Review, February 12, 2009
- NSPE - National Society of Professional Engineers Recent Contractual Issues of Importance to Engineers Webinar, February 11, 2009, 1.0 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, Advanced Snow Loads, February 6, 2009, 1.0 PDH
- Lorman Education Services, Web Seminar - CPM in Construction Management: Preventing and Measuring Delays, February 5, 2009, 1.5 PDH
- NSPE - National Society of Professional Engineers EJCDC Documents Webinar, February 4, 2009, 1.0 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, Design of Wood Columns and Wall Studs, February 3, 2009, 1.5 PDH

- SunCam Online Continuing Education Course #012, Laws and Rules, January 26, 2009, 4 PDH
- Lorman Education Services - Understanding LEED 2009 for Sustainable Building, Web Seminar, January 15, 2009, 1.5 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, Design of Wood Diaphragms and Shear Walls, January 13, 2009, 1.5 PDH
- SWR - Sealant, Waterproofing & Restoration Institute Webinar, Fundamentals of Joint Sealants in Building and Construction Applications, December 9, 2008, 1 CEU
- National Society of Professional Engineers (NSPE), Construction Phase Risk Management: Critical Issues in Construction Contract Administration, November 5, 2008, 1.5 PDH
- American Society of Civil Engineers (ASCE) Web Seminar, Critical Path Method: Introduction to the Method and Software, September 5, 2008, 1.5 PDH
- National Academy of Forensic Engineers Annual Meeting, Portland, Oregon, July 26, 2008
- Honeywell, Huntsman and NCFI: Design Right and Build Strong: Storm-resistant Homes Using Closed-cell Spray Foam for Strength and Energy Efficiency, Webinar, July 16, 2008
- Insurance Regulatory Examiners Society, Infrared Inspections for Determination of Claims, April 10, 2008
- ASHRAE Humidity Control 2 Basic Principals, Loads and Equipment, ASHRAE Online Course, April 2008, 3 PDH
- ASHRAE Humidity Control I Basic Principals, Loads and Equipment, ASHRAE Online Course, March 2008, 3 PDH
- University of Denver, Global Delegation Tour, Dubai, March 2008, 20 hours

**PROFESSIONAL
REGISTRATIONS:**

The National Council of Examiners for Engineering and Surveying
Record (NCEES) - 32485

State of Alabama Professional Registered Engineer - 32047-E

State of Arizona Professional Registered Engineer - 51687

State of Arkansas Professional Registered Engineer - 18542

State of Colorado Professional Registered Engineer - 29473

State of Florida Professional Registered Engineer - 66764

State of Georgia Professional Registered Engineer - PE032848
State of Idaho Professional Registered Engineer - 16062
State of Illinois Professional Registered Engineer - 062.066209
State of Indiana Professional Registered Engineer - PE11400069
State of Iowa Professional Registered Engineer - 23343
State of Kansas Professional Registered Engineer - 20139
State of Louisiana Professional Registered Engineer - 36128
State of Maryland Professional Registered Engineer - 05 - 53959
State of Massachusetts Professional Registered Engineer - 54487
State of Michigan Professional Registered Engineer - 6201055964
State of Minnesota Professional Registered Engineer - 46830
State of Mississippi Professional Registered Engineer - 17766
State of Missouri Professional Registered Engineer - PE-2008022440
State of Montana Professional Registered Engineer - 19746
State of Nebraska Professional Registered Engineer - E-11109
State of Nevada Professional Registered Engineer - 018465 CE
State of New Jersey Professional Registered Engineer - 24GE04989900
State of New Mexico Professional Registered Engineer - 14293
State of North Carolina Professional Registered Engineer - 034188
State of North Dakota Professional Registered Engineer - 4086
State of Ohio Professional Registered Engineer - PE.85468
State of Oklahoma Professional Registered Engineer - 24823
State of Oregon Professional Registered Engineer - 82971 PE
State of Pennsylvania Professional Registered Engineer - PE091180
State of South Carolina Professional Registered Engineer - 27965
State of South Dakota Professional Registered Engineer - 12213
State of Tennessee Professional Registered Engineer - 116024
State of Texas Professional Registered Engineer - 98154
State of Utah Professional Registered Engineer - 7913116-2202
State of Virginia Professional Registered Engineer - 0402047440

State of Washington Professional Registered Engineer – 45594
State of West Virginia Professional Registered Engineer - 24228
State of Wisconsin Professional Registered Engineer – 45400-6
State of Wyoming Professional Registered Engineer – 8322 CE
Government of Puerto Rico Licensed Engineer - 27927
Certified Third Party Inspector/MA, Exterior Design Institute CO-16
CORE Safety Group, OSHA 10-Hour Construction Outreach Program, April 18-19, 2019
Level I, Certified Infrared Thermographer No. 13573
Level II, Certified Infrared Thermographer, No. 46588
Post Tension Inspector Level I – License No. 009124585
Post Tension Inspector Level II – License No. 12090711 (Expired)
National Academy of Building Inspection Engineers (NABIE) – Board Certified Building Inspection Engineer, No. 111
International Association of Certified Home Inspectors (InterNACHI), August 2006, NACHI06081680
The Association for the Advancement of Cost Engineering International, (AACE) Certified Forensic Claims Consultant, CFCC Number 45, June 2007

PROFESSIONAL ORGANIZATIONS:

American Society of Plumbing Engineers
American Society of Civil Engineers, Fellow Member, F.ASCE
Franklin L. Burns Schools of Real Estate and Construction Management, Daniels College of Business, University of Denver, Adjunct Professor, 2007 to present.
Jefferson County Colorado, Board of Review, May 2006 to March 2017, Regular Member
National Academy of Forensic Engineers, Fellow Member, #675-F
National Academy of Building Inspection Engineers, Professional Member, June 2007 to present
RESNET Infrared Committee, tasked with providing oversight by the RESNET Technical and Training and Education Committees. Responsible for maintaining the process for the approval of trainers, the curriculum for the course, and the writing of the test questions. Member, October 2010 to present

University of Denver, Daniels College of Business, Adjunct Faculty
Excellence in Teaching Award, May 13, 2016

Delegate - (IBFES) International Board of Forensic Engineering
Science - D-035

**PROFESSIONAL
AFFILIATIONS:**

American Concrete Institute (ACI)

Architect Engineers Institute (AEI)

Association of Energy Engineers (AEE)

American Forest Products Association

American Institute of Steel Construction (AISC)

American Institute of Timber Construction (AITC)

American Society of Civil Engineers (ASCE)

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

Building Officials Council of America (BOCA)

Colorado Association of Home Builders (CAHB)

Community Association Institute (CAI)

Certified Building Commissioning Professional (CBCP)

Colorado Chapter of Building Officials

Colorado State Association of Flood Plain Managers (CSAFPM)

Energy Efficient Building Associations (EEBA)

The Forensic Engineering Task Force, The Colorado State Board of
Licensure for Professional Engineers and Land Surveyors, 2004
through 2006

Foundation Performance Association (FPA)

Home Builders Association (HBA)

International Code Council, Colorado Chapter (ICC)

International Conference of Building Officials (ICBO)

International Erosion Control Association (IECA)

International Log Builders Association (ILBA)

Investigative Engineers Association (I-Eng-A)

Moisture Management Taskforce (HBA and Tri-County)
Member/Speaker

National Academy of Forensic Engineers (NAFE)

National Fire Protection Association (NFPA)
National Institute of Building Sciences (NIBS)
National Society of Professional Engineers (NSPE)
Post Tension Institute, Professional Member, June 2006
RESNET - Certified Home Energy Rater, April 15, 2011
International Institute of Building Enclosure Consultants (IIBEC)
Structural Engineers Association of Colorado (SEAC)
The Engineered Wood Association (APA) Professional Membership
The Journal of Explosive Engineering
The Society for Protective Coatings (SSPC)
September 2020 - Present: CEO, SBSA LLC

**PROFESSIONAL
HISTORY:**

Forensic Engineering involving Building Envelopes, Structural, Civil, and Engineering in the Jurisprudence Market. Clients include Attorneys, Homeowners, Property Management Companies, Building Owners, Developers, and General Contractors. Building Envelope Design, Analysis and Testing. Structural Engineering including Design and Analysis. Civil Engineering regarding drainage, grading, layout and review.

January 2010 - September 2020: Owner, SBSA, Inc.

Forensic Engineering involving Building Envelopes, Structural, Civil, and Engineering in the Jurisprudence Market. Clients include Attorneys, Homeowners, Property Management Companies, Building Owners, Developers, and General Contractors. Building Envelope Design, Analysis and Testing. Structural Engineering including Design and Analysis. Civil Engineering regarding drainage, grading, layout and review.

1999 to 2009: Principal, Professional Investigative Engineers

Forensic Engineering involving Building Envelopes, Structural, Civil, and Personal Injury Claims. Clients include Attorneys, Insurance Companies Homeowners, Property Management Companies, Building Owners, Developers, and General Contractors. System analysis including building envelope (roofing, veneers, interface components) review to determine longevity, claim damage, installation requirements and function issues, Mechanical System Reviews, Radiant Heat System Review, Log Home Structures. Structural engineering including forensic investigations of failures and performance. Civil engineering review

regarding compliance, flood proofing, soils interaction issues. Forensic Engineering Services including expert witnessing, file review, and subrogation matters. Quality Assurance for New Design and Repair Design on behalf of Builders, Developers, Architects, and Home Owner Associations. New design of single family structures. Design of civil, structural, perimeter drain systems, crawlspace ventilation systems, and building envelopes. Analysis of HVAC systems by testing with blower doors, pressure testing, flow measurements, and modeling of thermal characteristics.

1995 to 1999: Project Manager, Gillans Incorporated

Design of steel, wood, masonry, and concrete structures up to 3 stories in height for residential and light commercial structures. Analyze structural, civil, roofing, and waterproofing details for residential and commercial properties. Design of repair for failed structural members in residential and industrial buildings. Forensic engineering for private clients, insurance clients, and lawyers. Project manager for staff of 1 to 15 people. Investigations of structural safety for fire-damaged structures. Capital expenditure studies for private and housing authority clients.

1992 to 1995: Project Engineer, Muller Engineering

Regional hydraulics and hydrological studies for FEMA and local review and approval. Hydraulic modeling for bridge sizing and scour analysis. Open channel and closed system irrigation design and specification writing. Construction services for hydraulic projects. Network and CADD management.

1991 to 1992: Project Engineer, OEMC

Planning and design of the Upper Eagle Valley Regional Solids Facility. Included site planning, building layout, storm sewer, clarifier design, aerobic digester design, hydraulic modeling, pump design, specification review, structural design of clarifier and solids receiving. CADD management.

1988 to 1991: Assistant Engineer: Bausch Engineering and Surveying

Responsibilities included design, construction services for residential and commercial site development, non-standard in-situ sanitation facilities, hydrological studies and pollutant modeling. Project management, cost estimation, surveying, and CADD management.

**COURT TESTIMONY/
ARBITRATIONS IN THE
LAST 4 YEARS:**

- Full history of court testimony available upon request.
- Eating Recovery Center v. Lowry 8199 LLC, District Courts, City and County of Denver, Colorado, Case No. 2019CV032615, December 1 & 8, 2020
- Charles Campbell and Deborah Campbell v. CMH Homes, Inc., American Arbitration Association, Denver, Colorado, Case No. 01-19-0002-1443, October 5, 6 & 10, 2020
- Beacon Point Townhomes Homeowners Association v. Century Communities, Inc., Arbitrator Shawn K. Aiken, Phoenix, AZ, No Case No., August 26 - 31, 2020
- CC Communities, LLC f/k/a Century Communities, LLC, et al. v. Post Tension Group, LLC, Judicial Arbitrator Group, Denver, Colorado, JAG No. 2019-0559A, January 8, 2020
- CC Communities, LLC f/k/a Century Communities, LLC, et al. v. APT Systems, Inc., Judicial Arbitrator Group, Denver, Colorado, JAG No. 2019-0559A, November 20, 2019
- Century Communities of Georgia, LLC v. Magnum Contracting, LLC, American Arbitration Association, Atlanta, Georgia, Case No: 01-18-0004-3336, November 19, 2019
- GV Holdings, LLC v. 7677 East Berry Avenue Associates LP, District Court, County of Arapahoe, Colorado, Case No. 2010CV2485, October 16 & 17, 2019
- Donald Crews and Natures Cure III, LLC v. Gilcrest LLC and 601, LLC, District Court, City and County of Denver, Colorado, Case No. 18CV32086, August 6, 2019
- Reinke Brothers Playhouse, LLC V. Statewide Roofing Consultants, Inc., District Court, Jefferson County, Colorado, Case No. 2017CV31500, July 9 & 10, 2019
- Donald Geiser and Joan Geiser v. Portico Homeowners Association, Inc., District Court, City and County of Denver, Colorado, May 9, 2019
- Brooktree Village Homeowners Association, Inc., v. Brooktree Village, LLC, District Court, El Paso County, Colorado, Case No. 2017CV31301, May 2, 3, 6, & 10 2019
- Mark Hall and Shelley Hall v. Kersting Construction Group, Inc., Judicial Arbitrator Group, Denver, Colorado, JAG No. 2018-0418A, February 25 - 27, 2019

- Hemingway Court Homeowners Association, Inc., v. CB Jeni Homes LLC, Dallas County, Texas, Case No. DC 16-05354, January 28, 29 & 30, 2019
- Carla S. Wright v. Beauvallon Condominium Association, Inc., District Court, City and County of Denver, Colorado, Case No. 2018CV30145, December 10, 2018
- Sunflower Condominium Association v. Owners Insurance Company, District Court of Colorado, Case No. 16:CV02946WJMNYW, October 17, 2018
- Taylor Kohrs LLC v. Yeshiva Toras Chaim – Talmudical Seminary, Judicial Arbiter Group, Denver, Colorado, Case No. 2017-0744A, April 17 & 18, 2018
- Taylor Kohrs LLC v. Yeshiva Toras Chaim – Talmudical Seminary, Judicial Arbiter Group, Denver, Colorado, Case No. 2017-0744A, December 8, 11 & 13, 2017
- Nancy Jenkins, Terry Kirkham v. State Farm Fire and Casualty Company, District Court, Colorado, Case No. 15CV02691, July 26, 2017
- Fairways at Buffalo Run HOA v. Fairways Builders, Inc., District Court, Adams County, Colorado, Case No. 2016CV30393, April 24, 2017
- Robin Gray and Roberta Gray v. Greg S. Kapaun and Dawn A. Kapaun, District Court, Douglas County, Colorado, Case No. 15CV30646, December 14, 2016
- The Conservatory Homeowners Association, Inc., v. KDB Homes Inc., d/b/a D.R. Horton, Judicial Arbiter Group, Denver, Colorado, Case No. 2015-0793A, December 7, 8 & 15, 2016
- La Grange Condominium Association v. Glaser Associates Architects, Judicial Arbitration and Mediation Services, Inc. Denver, Colorado, Case No. 17960, November 14, 15, 22 & 23, 2016
- Huning Ranch, Anaya, Aragon, Bernal, Bruhn, Claibourne, Garcia, Lucero, Harding, Lozano, Martinez, Phillips, Pruitt, Romero, Saenz, Serafin, Smith, Suarez, Garley, Williams, Zapien v. D.R. Horton, Inc., Albuquerque, New Mexico, Case No. 2010CV3532, October 19, 2016
- Vista at Nor'wood Townhome Association, Inc., v. Century Communities, Inc., Judicial Arbiter Group, Denver, Colorado, JAG No. 2015-0860A, September 19, 2016

- Balterra Condominium Association, Inc., v. D.R. Horton, Inc., American Arbitration Association, Denver, Colorado, Case No. 77-443-Y-0038513, August 22, 2016
- Dan's Custom Construction, Inc., v. Roberston Lewton Land Holdings LLC, District Court, Weld County, Colorado, Case No. 15CV30513, May 11, 2016
- Bolt Factory Lofts Owners Association, Inc., v. Roladex Construction Co. Inc., and Mark Brannon, District Court, City and County of Denver, Colorado, Case No. 2016CV33608, May 9, 2016
- Helen Hawkins v. Vista Ridge Development Corporation, Weld County District Court, Colorado, Case No. 2012Cv727, August 12, 2015
- Rebecca A. Myers v. Gene W. Myers, District Court, Denver County, Colorado, Case No. 14DR30573, July 15, 2015
- Manuel Toledo v. D.R. Horton, Inc., Albuquerque, New Mexico, Case No. Not stated on NOD, June 9, 2015
- Michael Miller and Diane Miller v. American Family Mutual Insurance Company, District Court, Denver, Colorado, Civil Action No. 1:14-CV-00351-RBJ, May 5 & 6, 2015
- Southfork Meadows Homeowners Association v. Wintergreen Homes Brett II, LLC, Judicial Arbitrator Group, Denver, Colorado, JAG No. 2013-2006A, February 2-6, 2015
- Brian Alonge v. Ironbridge Homes, LLC, et al, Arbitration before Joel Kolodny, Esq., Englewood, Colorado, January 28 and 29, 2015
- Full history of deposition testimony available upon request.
- Montgomery Knights Crossing Homeowners Association, Inc., v. MHI Partnership, LTD dba Coventry Homes, Irving, Texas, Remote audio-video conference, AAA No. 01-19-0003-3530, November 11, 2020
- Northfield Commons Duplex Condominium Association v. Coast to Coast Residential Development and Markel Homes Construction Company, Colorado Springs, Colorado, No Case No. on Subpoena, November 3, 4, & 5, 2020
- Crossroads Twin Peaks, LLC v. Berkshire Hathaway Homestate Insurance Company, District Court, Colorado, Case No. 1:19-cv-02732-CMA-NRN, October 20, 2020

**DEPOSITION
TESTIMONY IN THE
LAST 4 YEARS:**

- GSL Group Inc., v. The Travelers Indemnity Company, District Court, Colorado, Case No. 1:18-cv-00746-MSK-SKC, October 16, 2020
- Eating Recovery Center LLC v. Lowry 8199 LLC, District Court, City and County of Denver, Colorado, Case No. 2019CV032615, October 14, 2020
- The Preserve at Brighton Homeowners Association Inc., v. Freund Investments, LLC, District Court, Adams County, Colorado, Remote audio-video conference, Case No. 2018CV31229, September 28, 2020
- Judson Independent School District - Copperfield Elementary v. Joeris General Contractors, LTD., District Court of Bexar County, Texas, Remote audio-video conference, Cause No. 2018-CI-18430, September 25, 2020
- Clarendon National Insurance Company v. Brooktree Village Homeowners Association Inc., District of Colorado, Remote audio-video conference, Case No. 19-cv-02324-KMT, September 22, 2020
- Judson Independent School District - Converse Elementary v. Kencon Contractors, Bexar County, Texas, Remote audio-video conference, Cause NO. 2018CI13765, September 9, 2020
- Grove at Grand Bay Condominium Association, Inc., v. Terra Grove Communities, LLC, Miami-Dade County, Florida, Remote audio-video conference, Case No. 18-42956 CA 44, September 3, 2020
- Heritage Todd Creek Attached Homes Association, Inc., v. Lennar Colorado, LLC., American Arbitration Association, Denver, Colorado, Remote audio-video conference, AAA Case No. 01-18-0004-4583, July 29, 2020
- VCH Owners Association Inc. v. Ashton Austin Residential LLC. V. Barker Contracting Inc., American Arbitration Association, Austin, Texas, AAA NO. 01-19-0000-5401, July 10, 2020
- Browning, Nederhoed, Potter, and Whittaker v. Lennar Colorado, LLC., Phoenix, AZ, American Arbitration Association, AAA Case No. 02-18-0002-6690, AAA Case No. 02-18-0002-6694, AAA Case No. 02-18-0002-6695, AAA Case No. 02-18-0002-6693, June 2, 2020
- Country Club Highland Homeowners Association, Inc., v. Arcadia Holdings at CC Highlands One, LLC. Judicial Arbitrator Group, Denver, Colorado, JAG Case No. 2018-1687A, June 1, 2020

- Joshua Portnoy v. Jackson Engineers, Inc., District Court Arapahoe County, Colorado, Remote audio-video conference, Case No. 2019CV31944, May 28, 2020
- Montecito at Ridgeway Community Association, Inc., v. Montecito at Ridgeway, LLC, Judicial Arbitrator Group, Denver, Colorado, JAG No. 2018-1246A, May 19, 2020
- Stetson Ridge Townhome Owner Association, Inc., v Stetson Ridge Homes, LLC, remote audio-video conference, Colorado, May 12, 2020
- Michael and Valerie Loolara v. The National Flood Insurance Program; W. Brook Long, New Orleans, Louisiana, Civil Case No. 17-cv-00953-BAJ-EWD, April 21, 2020
- Lakeshore at Centerra Owners Association v. Landmark Constructions Solutions Inc., Judicial Arbitrator Group, Denver, Colorado, JAG No., April 1, 2020
- Charles Campbell and Deborah Campbell v. CMH Homes, Inc., American Arbitration Association, Denver, Colorado, Case No. 01-19-0002-1443, March 10, 2020
- Vijay Patel and Sonia Martinez v. JCH Davis Contractors, Inc., American Arbitration Association, Denver, Colorado, AAA No. 01-19-0001-1861, March 3, 2020
- Beacon Point Townhomes Homeowners Association v. Century Communities, Inc., Arbitrator Shawn K. Aiken, Phoenix, AZ, No Case No., February 10 & 11 and March 24, 2020
- VCH Owners Association Inc. v. Ashton Austin Residential LLC. V. Barker Contracting Inc., American Arbitration Association, Austin, Texas, AAA NO. 01-19-0000-5401, January 30 & 31, 2020
- Greg McCrimmon and April McCrimmon v. TRADEWINDS57, LLC, District Court, Adams County, Colorado, Case No. 2019cv30259, January 13, 2020
- Hyde Drift Boats, Inc., v. Eagle Rock Blasting, Inc., District Court, Bonneville, Idaho, Case No. CV-18-5066, January 7, 2020
- Coal Creek Village North - Patio Villa Homes v. Calatlantic Group, Inc., American Arbitration Association, Denver, Colorado, Case No. AAA NO. 01-18-0001-6558, December 11, 2019
- Simplehousing Co LLC, V. Carlos Galvador dba G&G Roofing Specialists, District Court, El Paso County, Colorado, Case No. 2018CV30559, October 25, 2019

- RCPR Acquisition Holdings, LLC v. Zurich American Insurance Company, Circuit Court, Montgomery County, Maryland, CIVIL ACTION NO. 457043-V, October 11, 2019
- VCH Owners Association Inc. v. Ashton Austin Residential LLC. V. Barker Contracting Inc., American Arbitration Association, Austin, Texas, AAA NO. 01-19-0000-5401, October, 9, 2019
- Wendy Kane V. Castlewood Custom Landscape and Design, Inc., District Court, Arapahoe County, Colorado, Case No. 2018CV30352, October 4, 2019
- Daniel Zamora v. Superior Outdoors, Inc., and Joel Gardner, Weber County, Utah, Case No. 180900445, September 26, 2019
- Clarendon National Insurance Company v. Clay Street Condos, LLC, District Court, Denver, Colorado, Case No. 1:18-cv-03330-PAB, September 20, 2019
- Carrizo Springs Independent School District - Carrizo Springs High School v. Bartlett Cocke General Contractors, LLC, District Court, Dimmit County, Texas, Cause No. 180213359DCVAJA, August 19, 2019
- Breakaway Condominium Association, Inc., v. Reconstruction Experts, Inc., The Nelson Law Firm, 1740 N. High Street, Denver, Colorado 80218, JAMS Case # 22505, August 16, 2019
- Lido Condominium Association, Inc., v. CJ Restoration, Inc., District Court, City and County of Denver, Colorado, Case No. 2018CV033244, August 12, 2019
- Kristen Russell v. Field West Construction, LLC, District Court, Boulder County, Colorado, Case No. 17CV30579, July 1, 2019
- Stonecrest Homeowners Association, Inc., v. Brant Hollow, LLC, District Court, El Paso County, Colorado, Case No. 2018CV31031, June 13, 2019
- Terry Gordon and Vicki Bloomquist v. Century Communities, Judicial Arbiter Group, Denver, Colorado, JAG No. 2017-1493A, April 3, 2019
- Anthony Martinez, Rivers Picasso Martinez, a minor, and Ira Picasso Martinez, a minor v. Cast LLC, and Caroni Adams, District Court, La Plata County, Colorado, Case No. 2018CV30085, March 29, 2019
- Scottsdale Shadows V., Inc., v. Providence Builders, Inc., Superior Court of Arizona, County of Maricopa, Arizona, Case No. CV2017-011966, March 7, 2019

- The Riverside Village Homeowners Association v. Hines Las Colinas Land Limited Partnership, District Court, Dallas County, Texas, Cause No. DC16-07429, February 4, 2019
- Mark Hall and Shelley Hall v. Kersting Construction Group, Inc., Judicial Arbiter Group, Denver, Colorado, JAG No. 2018-0418A, February 1, 2019
- 656 Logan Street Condominium Association, Inc. v. Owners Insurance Company, District Court, Colorado, Case No. 1:17CV01533, January 25, 2019
- Simplehousing Co LLC, v. Carlos Galvador, dba G & G Roofing Specialists, District Court, El Paso County, Colorado, Case No. 2018CV30559, January 16, 2019
- Hemingway Court Homeowners Association, Inc., v. CB Jeni Homes LLC, Dallas County, Texas, Case No. DC 16-05354, December 17, 2018
- The Victoria Owners Association v. Holmquist-Lorenz Construction Company, District Court, County of Routt, Colorado, Case No. 2016CV030125, December 7, 2018
- Tina Perkins v. Wright National Flood Insurance Company, Eastern District of Louisiana, Case No. 2:17CV10070NJBVM, December 4, 2018
- Angelique Doucet Boykin v. Wright National Flood Insurance Company, Eastern District of Louisiana, Case No. 2:17CV11788EEFMBN, December 4, 2018
- Boyd Ponds Master Association, Inc., v. Enclave at Boyd Ponds, LLC, American Arbitration Association, Phoenix, AZ, November 30, 2018
- Villas at Highland Park Homeowners Association, Inc., v. CC Communities, LLC, District Court, Arapahoe County, Colorado, Case No. 2013CV31625, November 28, 2018 and January 5, 2019
- Oakwood Village Homeowners Association v. Village Oaks, LLC, District Court, El Paso County, Colorado, Case No. 2017CV31306, November 21, 2018
- Clay 28th Condominiums Association, Inc., v. Clay Street Condos LLC, Judicial Arbiter Group, Denver, Colorado, Case No. 2016-1840A, November 16, 2018
- USAA Casualty Insurance Company v. Dennis Ceccarelli and Joan Ceccarelli, District Court, Utah, Case No. 2:16CV00867-DAK, November 13, 2018

- Jason Stevens v. The Augusta Group, LLC, District Court, City and County of Denver, Colorado, Case No. 2017CV32334, November 9, 2018
- The Greenstones Owners Association, Inc., v. AVI, Inc., District Court, City and County of Boulder, Colorado, Case No. 16CV31068, October 25, 2018
- Beauvallon Condominium Association, Inc., v. Carla S. Wright, District Court, City and County of Denver, Colorado, Case No. 2018CV30145, October 16, 2018
- Michael and Delanne Reichard et al, v. Longford Homes of New Mexico, Inc., County of Santa Fe, New Mexico, Case No. D-101-CV201601736, October 15, 2018
- Owners Insurance Company v. 11380 East Smith Road, LLC and 355 Moline, LLC, District Court, Colorado, Case No. 1:17CV00346, October 5, 2018
- The Villas at Pleasant Valley Condominium Association, Inc., v. Colorado Oaks, LLC, Judicial Arbitrator Group, Denver, Colorado, Case No. 17-0453A, October 2, 2018
- Hemingway Court Homeowners Association, Inc., v. Sumeer Homes Inc., Dallas County, Texas, Case No. DC 16-05354, September 26, 2018
- Mary Elizabeth McLemore and Mitchell Eddie McLemore v. New Hampshire Insurance Company, Eastern District of Louisiana, Case No. 217CV11271MLCFDEK, September 20, 2018
- Hermleigh Independent School District v. Raydon, Inc., District Court, Scurry County, Texas, Cause No. 25682, September 17, 2018
- Landmark Towers Condominium Association, Inc., v. GV Holdings, LLC, District Court Arapahoe County, Colorado, Case No. 2010CV2485, August 31, 2018
- Bridges on the Park Condominium Association, Inc., v. Western Waterproofing Company, Inc., District Court, Travis County, Texas, Cause No. D1GN17002330, August 29, 2018
- Vallagio at Inverness Residential Condominium Association Inc., v. Metropolitan Homes Inc., District Court, Arapahoe County, Colorado, Case No. 2013CV32022, August 21, 2018
- Brooktree Village Homeowners Association, Inc., v. Brooktree Village, LLC, District Court, El Paso County, Colorado, Case No. 2017CV31301, August 16, 2018

- Hemingway Court Homeowners Association, Inc., v. Hemingway Development Corporation Inc., Southlake, Texas, Case No. 01-17-0004-3628, June 25, 2018
- The Peloton Condominium Association v. Cityview Peloton 360, JAMS Denver, Denver, Colorado, Case No. 20530, June 20, 2018
- Sunflower Condominium Association v. Owners Insurance Company, District Court of Colorado, Case No. 16:CV02946WJMNYW, May 29, 2018
- Fraser Crossing/Founders Pointe Condominium Association, Inc., v. Intrawest/Winter Park Development Corporation, Judicial Arbiter Group, Denver, Colorado, Case No. 2017 - 0633A, March 29, 2018
- Bolt Factory Lofts Owners Association, Inc., v. Roladex Construction Co. Inc., and Mark Brannon, District Court, City and County of Denver, Colorado, Case No. 2016CV33608, March 23, 2018
- Taylor Kohrs LLC v. Yeshiva Toras Chaim – Talmudical Seminary, Judicial Arbiter Group, Denver, Colorado, Case No. 2017-0744A, March 08, 2018
- Central Park Community Association v. Century Communities Inc., District Court, Denver County, Colorado, Case No. 2015CV33740, March 1, 2018
- ASP v. Apogee Wausau Group, Inc., District of Colorado, Case No. 1:16-CV-03140-CMA-MEH, February 7, 2018
- Oskars Stucis, an individual, Amy Dreger, and individual, et al. v. Ascent Investments, LLC, a Colorado limited-liability company; and Niron Construction, LLC, District Court, Denver County, Colorado, Case No. 2016CV034636, January 26, 2018
- Banquete Independent School District v. Don Krueger Construction Co., Nueces County, Texas, Case No. 2015DCV-4195-B, November 13, 2017
- Taylor Kohrs LLC v. Yeshiva Toras Chaim – Talmudical Seminary, Judicial Arbiter Group, Denver, Colorado, Case No. 2017-0744A, October 25, 2017
- Tripointe Business Center Owner's Association Inc., v. Federal Insurance Company, District Court, Colorado, Case No. 1:16-cv-02145-RM, October 19, 2017

- Anthony R. Bosch and Rebecca M. Bosch v. Mark Manley Construction Inc., District Court, Jefferson County, Colorado, Case No. 2017CV30334, October 11, 2017
- Fair Wind II Condominium Association v. CU Contractors, District Court, City and County of Broomfield, Colorado, Case No. 2016CV030148, September 28, 2017
- Morgan's Run HOA, Inc., v. A Smith Construction, Inc., et al., District Court, Douglas County, Colorado, Case No. 2015CV30516, July 13 & 14, 2017
- Franklin Tower Lofts Condominium Association, Inc., v. Third Party Defendant Drywall Services Residential, Inc., District Court, City and County of Denver, Colorado, Case No. 2015CV33603, May 10, 2017
- Century Communities v. Steadfast Insurance Company, District Court, City and County of Denver, Colorado, Case No. 2015CV33446, March 24, 2017
- Fairways at Buffalo Run HOA v. Fairways Builders, Inc., District Court, Adams County, Colorado, Case No. 2016CV30393, March 21, 2017
- Par Six Condominiums Association v. TNT Specialty Constructors, Inc., District Court, Eagle County, Colorado, Case No. 2015CV30283, January 27, 2017
- Daniel Knoebel v. Tesoro Custom Homes, Inc., District Court, Jefferson County, Colorado, Case No. 2014CV32458, January 19, 2017
- The Conservatory Homeowners Association, Inc., v. KDB Homes Inc., d/b/a D.R. Horton, Judicial Arbitrator Group, Denver, Colorado, Case No. 2015-0793A, October 28, 2016
- Clifford, Gulley, Kelley, Livesay, Stinson, Norris, Dobitz, Whitlock, Casteel, and Greene v. Lang Homes, Inc., Woodridge Construction Inc., Falcon Consulting Services, PC., County of Campbell, State of Wyoming, Case No. 35131, October 18, 2016
- La Grange Condominium Association v. Glasser Associates Architects, JAMS Denver, Colorado, Case No. 17960, October 4, 2016
- Barrington Heights Townhome Association, Inc., v. Century Communities, District Court, County of El Paso, Colorado, Case No. 2014CV034083, September 29, 2016

- Huning Ranch, Agren Blando Court Reporting, 216 16th Street, Suite 650, Denver, Colorado 80202, September 8, 2016
- Vistas at Nor'wood Townhome Association Inc., v. Century Communities, Judicial Arbiter Group, Denver, Colorado, JAG No. 2015-0860A, August 25, 2016
- Heritage at Vista Ridge Owners Association, Inc., v. Boulder Creek Builders, LLC, District Court, County of Weld, Colorado, Case No. 2014CV30709, July 26, 2016
- Sean Hart and Delores Hart v. Reiman Corp. and Subsidiary, Gertsch-Baker Engineering & Design, and Inberg Surveying Company, Inc., District Court, County of Albany, Wyoming, Case No. 33678, July 22, 2016
- Cornerstone Townhomes Homeowners Association v. Brannan Sand and Gravel Company, LLC, District Court, Adams County, Colorado, Case No. 2014CV30501, July 15, 2016
- Village West at Centennial Owners Association, Inc., v. Academy Roofing, Inc., District Court, County of Arapahoe, Colorado, Case No. 2013CV31232, May 12, 2016
- Liberty at Registry Ridge Community Association, Inc. v. Caribou Construction, Inc., District Court, Larimer County, Colorado, Case No. 2014CV030693, April 18 & 19, 2016
- Huning Ranch, Agren Blando Court Reporting, 216 16th Street, Suite 650, Denver, Colorado 80202, April 11, 2016
- Maypearl Independent School District v. Buford-Thompson Company, LLC, Ellis County, Texas, Cause No.90637, April 6, 2016
- Robin Ann George Revocable Trust v. RL Construction Group, Inc., District Court, Eagle County, Colorado, Case No. 2014CV30225, March 15, 2016
- Merla Sirovy v. Landmark Construction Solutions, Inc., District Court, Larimer County, Colorado, Case No. 2015CV30097, February 19, 2016
- Piper Billups and Chauncey Billups v. Haley Custom Homes, LLC, District Court, Arapahoe County, Colorado, Case No. 2015CV30008, January 28, 2016
- Jim Coates; Jean Coates; Jean Coates Revocable Trust; et al v. Vision Development Group, Inc.; Paradise Villas Castle Pines, LLC; Steven Gage, District Court, Douglas County, Colorado, Case No. 2014CV30372, January 19, 2016

- First Creek Owners Association v. KB Homes Colorado, District Court, Denver County, Colorado, Case No. 2014CV33941, January 12, 2016
- Douglas A. Dennis Trust v. Vistasces Design, LLC, District Court, Arapahoe County, Colorado, Case No. 15CV30245, December 21, 2015
- 9300 East Florida Avenue Homeowners Association, Inc., v. Florida Beeler, LLC, Judicial Arbitrator Group, Denver, Colorado, JAG No. 2014-0561A, December 14, 2015
- Huning Ranch, Agren Blando Court Reporting, 216 16th Street, Suite 650, Denver, Colorado 80202, December 3, 2015
- First Creek Owners Association v. KB Homes Colorado, District Court, Denver County, Colorado, Case No. 2014CV33941, November 18, 2015
- Carl Breen DBA Breen Design v. Front Range Refrigeration Company, Inc., District Court, Adams County, Colorado, Case No. 2015CV28, November 11, 2015
- Territorial Holdings LLC. V. Castle Reef Enterprises, LLC and Eagle Rigid Span, Inc., Montana Fifth Judicial District Court, Madison County, Montana, Case No. DV201373, September 24, 2015
- Silver Hawk Homeowners Association, Inc., v. Harmony Homes, Inc., Judicial Arbitrator Group, Denver, Colorado, JAG No. 2015-0946A, July 28, 2015
- Villas at La Campanella Property Owners Association, Inc., v. Hunnabs, LLC, District Court of La Plata County, Colorado, Case No. 2013CV30099, July 21, 22 & August 4, 2015
- D.R. Horton, Inc. and DRH Southwest Construction, Inc., Agren Blando Court Reporting, 216 16th Street, Suite 650, Denver, Colorado 80202, Case No. not stated, June 29, 2015
- Helen Hawkins v. Vista Ridge Development Corporation, Weld County District Court, Colorado, Case No. 2012Cv727, June 22, 2015
- Windmill Creek Association v. Land Services, Inc., and Douglas A. Barnes, District Court, City and County of Arapahoe County, Colorado, Case No. 14CV31793, June 19, 2015
- Village West at Centennial Owners Association, Inc. v. KB Home Colorado, Inc., Arapahoe County District Court, Colorado, Case No. 2013CV31232, June 1, 2015

- Paul and Mary Sanchez v. Charter Homes, Inc. et al., State of New Mexico, Agren Blando Court Reporting, 216 16th Street, Suite 650, Denver, Colorado 80202, Case No. D 1314CV201300742, April 13, 2015
- Pinon Condominium Owner Association Inc., v. Trigon General Contractor & Construction Manages, Inc., District Court, Archuleta County, Colorado, Case No. 13CV000054, April 6, 2015 & April 20, 2015
- Huning Ranch, Agren Blando Court Reporting, 216 16th Street, Suite 650, Denver, Colorado 80202, March 19, 2015
- Bradburn Townhomes Association v. Beazer Homes Holding Corp., et al., District Court, Adams County, Colorado, Case No. 2013CV30784, January 14, 2015
- Ozark Mountain Inn v. United Fire & Casualty Company, District Courts for the Western District of Missouri, Case No. 13-3069CV-DPR, January 7, 2015

PUBLICATIONS:

Published in Construction Accounting and Taxation, Vol 26, No 1, January/February 2016

- *Stairs, Railing, and Fencing: Do Retail Markets Exist to Justify Sales or Use Taxes?*

Co-Authored by Stephen Sewalk, Edward L. Fronapfel, P.E., and Richard Leaman

Published in the Common Interests, Vol 33, No. 3, March 2015

- *Providing a Request for Proposal*

Authored by Edward L. Fronapfel, P.E.

Published in the Journal of the National Academy of Forensic Engineers, Vol. XXX No. 1, June 2013

- *Forensic Engineering: Allocation of Responsibilities for Subrogation Actions*

Authored by Edward L. Fronapfel, P.E.

Published in the International Journal of Forensic Engineering, Volume 1, No. 2, 2012

- *From litigation through repair: understanding and resolving moisture entry in a mid-rise Condo*

Authored by Edward L. Fronapfel, P.E.

Published in the Inframation, Proceedings, Volume 12

- *Inframation Proceedings, Volume 12, The Infrared Training Center, © 2011, Thermography Use within RESNET Standards, Co-Authored by Ryan J. Barnes, E.I.*

Published for The Journal of RCI, Inc, September 2011

- *Understanding Tile Roof Design and Performance*

Published in the Inframation, Proceedings, Volume 8

- *Inframation Proceedings, Volume 8, Fall 2007. Emissivity Determination and Temperature Calculation of Fluids in Piping Assemblies, Co-Authored Bradley Stolz, EIT*

Co-authored, Published for The Journal of RCI, Inc., The Institute of Roofing, Waterproofing, & Building Envelope Professionals, Interface, August 2007

- *Synthetic Stone Veneer – How to Avoid Problems*

Published for The Journal of RCI, Inc, The Institute of Roofing, Waterproofing, & Building Envelope Professionals, Interface, September 2006

- *The “Winds Of Change” In Asphalt Shingle Specification And Application*

Published in the Inframation, Proceedings, Volume 7

- *Inframation Proceedings, Volume 7, Fall 2006. Emissivity Measurements of Common Construction Materials, Co-Authored Bradley Stolz, EIT*

Published for Reproduction, Authored Solely by Edward L. Fronapfel, © 2006, Produced by Lorman Education, in Metal Building Systems, April 2006

- *Calculations Or Speculations, What Is Your Geotechnical Engineer Providing You*

The Forensic Engineering Task Force, The Colorado State Board of Licensure for Professional Engineers and Land Surveyors, Co-Authored, April 3, 2006

- *Report of The Practice of Forensic Engineering*

Published in the Building Integration Solutions, ASCE, AEI, March 2006, Edited by Mohammed Ettouney, PHD, P.E., F.A.E.I., Authored by Edward L. Fronapfel, and Brian Erickson

- *Synthetic Stone Veneer – Why Problems Occur and How to Avoid Them*

Published in “The Investigative Engineer”

- *Noisy Neighbors or Poor Sound Isolation*, July 2006 (co-authored)
- *Minimizing Impacts of Design and Construction on Future Water Loss Claims*, January 2004
- *How Did that Mold Get in My Bedroom*, March 2003 (co-authored)
- *Energy and Environmental Building Association Conference*, February 2001 (co-authored)
- *Hail-Resistant Roofs: Fact or Fiction*, May 2000 (co-authored)
- *Expansive Soils and Dipping Bedrock*, May 1999
- *That wall was there for a reason*, June 1999 (co-authored)
- *Mold & Fungus*, September 1999

Published in “The I-Eng-A Report”

- *Molds & Fungus*

Published in the Inframation, Proceedings, Volume 6

- *Infrared, Infrared Imaging and Log Construction, Volume 6, October 2005*, Co-Authored with Eric Amhaus, EIT
- *Analysis of HVAC System and Building Performance Utilizing IR, Physical Measurements and CFD Modeling, Volume 6, October 2005*, Co-authored with Jack Kleinfeld, P.E.

Co-Author, Moisture Management Task Force, Publication 1.0

- *Guidelines for Design and Construction of New Homes with Below-grade Under-floor Spaces*

Published in the Inframation, Proceedings, Volume 5, October 2004

- *Infrared Applications for Post Construction Radiant Heating Systems*

Published in the Inframation, Proceedings, Volume 4, October 2003

- *Infrared Applications in the Fields of Forensic & Construction Defect Engineering*

Co-Authored, Published in Colorado Claims Guide, March 2003

- *How Did that Mold Get in My Bedroom*