



JOHN PETERSON, MS, PE

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John Peterson, MS, PE Principal Engineer

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PROFESSIONAL ENGINEERING REGISTRATIONS(PE):

Colorado PE#39828
Montana #58256
Oklahoma PE#27599
Texas PE#122671
Kansas PE#27529

PROFESSIONAL MEMBERSHIPS & AFFILIATIONS:

- ACI-American Concrete Institute
- NSPE-National Society of Professional Engineers
- NCEES-National Council of Examiners for Engineering and Surveying
- ACEC-American Civil Engineers of Colorado

PO Box 64513
Colorado Springs, CO 80962
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EDUCATION:

M.S. Architectural Engineering, Kansas State University,
2001 Magna Cum Laude

B.S. Architectural Engineering, Kansas State University,
2001 Magna Cum Laude

ENGINEERING WORK HISTORY:

Principal, Rivet Engineering Group, LLC - January 2017 - Present

Engineering Manager, Knott Laboratory, LLC - April 2014 - January 2017

Senior Engineer, Knott Laboratory, LLC - September 2011 - April 2014

Project Manager, HCDA Engineering, Inc. - January 2006 - September 2011

Project Engineer, HCDA Engineering, Inc. - January 2002 - December 2006

Engineering Intern, Consulting Structural Engineers - Summers 2000-2001

Estimation Intern, G.E. Johnson Construction - Summer 1999

FORENSIC ENGINEERING EXPERIENCE:

Mr. Peterson has performed over 1,000 investigations of structures of varying size and complexity including damage induced by natural phenomenon such as seismic activity, wildfires, hail, wind, tornados, snow/freeze, and soil movement as well as man-made issues caused by design errors, construction defects, fires and explosions, poor site drainage, vehicle impacts, and fraudulent activities. Mr. Peterson has also investigated building envelope failures and moisture intrusion issues related to roofing, flashing, water resistive barriers (WRB), stucco, siding, windows/doors, and ventilation deficiencies. Through his investigations, Mr. Peterson has testified in court as an expert witness. He continues to offer specialized educational courses related to his experience and case studies. In addition to the discovery and identification phase of a case, his expertise and background allow him to provide clear and concise repair solutions from general recommendations to full-scale construction documents. His repair/design engineering philosophy revolves around open communication, full consideration of conditions and circumstances, and a team-oriented approach among interested parties and professionals.

STRUCTURAL ENGINEERING EXPERIENCE:

Mr. Peterson's experience includes the design of numerous residential and commercial structures of varying size and budgets in the fields of education, retail, medical, business, multi-family, and custom residential, among others. He is experienced in nearly all forms of structural materials including structural steel, masonry, concrete, timber and light-gage materials as well as more specialized materials including pre-stressed/post-tensioned concrete, pre-manufactured structures, Insulated Concrete Forms (ICF) and varying foundation types such as helical piers, drilled piers, and driven piles. Through his designs and investigations, he has accumulated a thorough knowledge of the building codes and standard practices utilized in design and construction. Mr. Peterson has performed numerous shop drawing reviews and peer design/calculation reviews. He also works closely with contractors to provide field repairs for problems that arise during and/or after construction and as a result, has a strong understanding of critical areas and where problems and inefficiencies can occur.

EXEMPLAR PROJECTS

John B. Peterson, MS, PE

COMMERCIAL DESIGN

- Memorial Hospital Women's and Children's Center | Colorado Springs, CO | Five-story cast-in-place concrete hospital *
- Memorial Hospital Parking Garage | Colorado Springs, CO | Seven-story, 1,500 spot precast concrete parking garage *
- University Village Shopping Center | Colorado Springs, CO | Shopping development including 10 single-story structures with steel framing and reinforced masonry walls *
- Montana Counties Armory | Chinook, MT | Repair to partial collapse of bowstring trusses
- Hampton Inn | Glendale, CO | Pool area repairs and renovation due to corrosion
- Trolley Marketplace | Colorado Springs, CO | Renovation/restoration and second level mezzanine addition at an existing industrial brick masonry and steel structure located downtown
- Colorado Department of Corrections | Canon City, CO | Multiple facility investigations and repairs

RESIDENTIAL DESIGN

- Single-Family Residence | Colorado Springs, CO | 23,000 sf with precast concrete and ICF *
- Single Family Residence | Teller County, CO | Modernized addition with large steel cantilevers
- Two Eight West | Colorado Springs, CO | Five-story multi-family condominium utilizing wood, steel and reinforced masonry systems *
- Sand Creek Commons | Colorado Springs, CO | Multiple deck and stair replacement
- Panorama Condominiums | Colo. Spgs., CO | 22-Unit stair\walkway repair & veneer rejuvenation
- Single-Family Additions | varies | Numerous repairs, additions, renovations
- Various foundation movement investigations and repair designs

POST-LITIGATION REPAIR DESIGNS

- Barrington Heights HOA | Colo. Spgs., CO | 21-Buildings - Building envelope, retaining walls, and drainage
- Dublin Terraces HOA | Colo. Spgs., CO | 18-buildings - Framing, building envelope, and drainage
- Highlands at Stonegate North HOA | Parker, CO | Building Envelope, Structural, and Drainage
- Oakwood Village HOA | Colo. Spgs., CO | 27-buildings - Building envelope and drainage
- Club Vista HOA | Colo. Spgs., CO | 6-buildings - Lateral system, drainage, stucco
- Whispering Pines | Colo. Spgs., CO | 6-Apartment buildings - Full roof over-frame due to rot
- Grand Peak Townhomes | Colo. Spgs., CO | 23-Buildings – Building envelope, drainage, framing

STORM DAMAGE / CATASTROPHE

- Gas Explosion Repairs | Las Animas, CO | Damage investigation and repair design for gas explosion at swine farm facility
- Shopping Plaza Fire Repairs | Logan, UT | Fire repair design of glulam wood beams and steel
- Meadow Lake Airport | Peyton, CO | Fire repair to airport hangars
- Wildfire investigations (Waldo Canyon, Black Forest, Cameron Peak, etc.)
- Several residential and commercial structure fire repair plans
- Multiple repair plans for residential and commercial buildings impacted by errant vehicles / trees
- Earthquake damage to single-family residences *
- Hail Damage to various roofing types: Shingles, Modified Bitumen, EPDM, TPO, SPF, and Concrete Tiles
- Wind Damage to Roofing / Cladding / Structures
- Snow loading failures and collapses

*Indicates projects prior to Rivet Engineering Group



PUBLICATIONS & PRESENTATION HISTORY

PUBLICATIONS:

- Peterson, J. "Attributes and Comparisons of Various Wood Framing Members." Kansas State University. (December 2001).

PRIMARY TECHNICAL CONFERENCES AND SEMINARS:

- "Evaluation of Fire and Explosion-Related Damage to Structural Components." Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, January 26, 2012.
- "Code Requirements for Repairs to Existing Structures." Presenter. Engle Martin & Associates, Inc., Centennial, CO, April 24, 2012.
- "Building Envelope Failures." Presenter. Interstate Restoration, Denver, CO, May 9, 2012.
- "Code Requirements for Repairs to Existing Structures." Presenter. Interstate Restoration, Denver, CO, May 9, 2012.
- "Introduction to Soils and Foundations" Presenter. Knott Laboratory Construction Safety and Claims Seminar, Centennial, CO, September 26, 2012.
- "Wildfire Investigation." Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, January 25, 2013.
- "Flood Damage to Structures." Presenter. Chartered Property Casualty Underwriters, Colorado Chapter, Englewood, CO, October 15, 2013.
- "Wildland Urban Interface: Fire Adapted Homes." Attendee. ICC Colorado Chapter Educational Institute, Englewood, CO, March 4, 2014.
- "Wind Provisions of the ASCE 7-10." Attendee. ICC Colorado Chapter Educational Institute, Englewood, CO, March 7, 2014.
- "Construction "How To" Series: Engineering Expert Witness Case Studies and Current Technologies." Presenter. Colorado Defense Lawyers Association Annual Conference, Telluride, CO, July 26, 2014.
- "Structure Fire Damage and Restoration." Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, January 30, 2015.
- "Advanced Studies of the IBC." Attendee. ICC Colorado Chapter Educational Institute, Englewood, CO, March 2, 2015.
- "2015 International Existing Building Code." Attendee. ICC Colorado Chapter Educational Institute, Englewood, CO, March 5, 2015.
- "Structure Fire Damage and Restoration." Presenter. Knott Laboratory Continuing Education Seminar, Grand Junction, CO, April 10, 2015.
- "What Happened to My New Concrete." Attendee. International Concrete Repair Institute, Rocky Mountain Chapter, Lakewood, CO, April 29, 2015.
- "Structure Fire Damage and Restoration." Presenter. Knott Laboratory Continuing Education Seminar, Colorado Springs, CO, May 1, 2015.
- 17. "Code Requirements for Repairs to Existing Structures." Presenter. Knott Laboratory Continuing Education Seminar, Colorado Springs, CO, May 1, 2015.
- "Snow, Rain, and Ice Loads." Presenter. Colorado Chapter International Code Council Educational Institute, Denver, CO March 8, 2017.
- "Building Loads and Wall Bracing." Presenter. Colorado Chapter International Code Council Educational Institute, Denver, CO March 6, 2018, March 5, 2019, March 3, 2020, and March 3, 2022.
- "Disaster Mitigation Training." Attendee. Colorado Chapter International Code Council Educational Institute, Denver, CO March 9, 2018.
- "2018 IBC Significant Changes". Attendee. Colorado Chapter International Code Council Educational Institute, Denver, CO March 6, 2019.
- "Retaining Wall Failures and Repairs". Presenter. Rivet and RE Continuing Education Seminar, Colorado Springs, CO March 22, 2019.
- "The Cost of Waiting". Presenter. CAI SoCo Educational Meeting, Colorado Springs, CO November 9, 2021.

TESTIMONY & TRIAL HISTORY

John B. Peterson, MS, PE

TRIAL HISTORY:

- Space Village Properties, LLC; Southern Belle Construction, Inc; Margaret H. Carnes; Lori L. Cox; Larry N. Carnes; Lonnie R. Cox v. Laca Loja, LLC | District Court - El Paso County, Colorado | Case Number 2009 CV 7408 | Construction Defect Expert Witness, March 27th, 2015
- Michael Miller and Diane Miller v. American Family Mutual Insurance Company | United States District Court - District of Colorado | Case Number 14 CV 00351 RBJ | Residential Fire Expert Witness, May 6th, 2015 and May 8th, 2015
- Crowley County School District RE-1J and The Colorado School District Self-Insurance Pool v. Drury Brothers Roofing and Beacon Sales Acquisition | District Court - County of Crowley, Colorado | Case number 2016 CV 030007 | Structural Collapse Expert Witness, January 21st, 2018
- Alison C. Ehrensaft and Summer D. Coombs v. Barton M. Buetow | District Court – El Paso, Colorado | Case Number 2021CV30026 | Structural Loading Expert Witness, September 1, 2022

DEPOSITION HISTORY:

- Space Village Properties, LLC; Southern Belle Construction, Inc; Margaret H. Carnes; Lori L. Cox; Larry N. Carnes; Lonnie R. Cox v. Laca Loja, LLC | District Court - El Paso County, Colorado | Case Number 2009 CV 7408 | Construction Defect Expert Witness, July 17th, 2014
- David B. Coppfer and Connie L. Coppfer v. American Family Mutual Insurance Company | District Court - Jefferson County, Colorado | Case Number 16 CV 30806 | Wind and Hail Expert Witness, December 5th, 2016
- David and Kristi Reinders Living Trust v. American Family Mutual Insurance Company | District Court, Douglas County, Colorado | Case number 2017 CV 30606 | Wind and Hail Expert Witness, July 9th, 2018
- Yale Condominiums Homeowners Association, Inc. v. American Family Mutual Insurance Company | S.I. United States District Court, District of Colorado | Case Number 19-cv-02477-KMT | Wind and Hail Expert Witness, June 23rd, 2020
- Stetson Ridge Townhome Owners Association, Inc. v. Stetson Ridge Homes, LLC/Century Communities, Inc | District Court, El Paso County, Colorado | Case Number 2019 CV 031617 | Construction Defect Expert Witness, July 22nd, 2020
- Douglas and Anna Johnson v. Integrity Roofing Services, LTD | District Court, El Paso County, Colorado | Construction Defect Expert Witness, October 30th, 2020

- Jeffrey and William Moore-Magoon; William Moore-Magoon; Jimmy Castillo; and Cathy Ann Magoon v. Renate Vetrano | District Court, El Paso County, Colorado | Case Number 2020CV32161 | Failure to Disclose, December 13, 2021
- Lincoln Hospitality, LLC v. Superior Builders, Inc. and Olsen Performance Team, LLC | District Court, Lincoln County, Colorado | Case Number 2020CV30015 | Construction Defect Expert Witness, February 21, 2022 and April 18, 2022
- Bradley Mueller v. American Family Mutual Insurance Company | District Court, Jefferson County, Colorado | Case Number 2021CV119 | Moisture Intrusion Insurance Claim, March 17, 2022
- John W. Clark and Paula B. Clark v. Reunion Homes, Inc, Geostruct Engineers, Inc. d/b/a/ RMG-Rocky Mountain Group, and JLE of Colorado, Inc. | District Court, El Paso County, Colorado | Case Number 2019 CV30128 | Construction Defect Expert Witness, March 18, 2022
- Dublin Terrace Townhome Owners Association, Inc. v. Challenger Homes, Inc.; BB 2036, LLC; Dublin Terrace, LLC; GTG Holdings, LLC; Dream Team Construction, Inc.; and Brian R. Bahr | District Court, El Paso County, Colorado | Case Number 2021CV30058 | Construction Defect Expert Witness, April 29, 2022
- Emily Blake vs. MGS Investments, LLC and Mark G. Salas | District Court, El Paso County, Colorado | Case Number 2021CV30280 | Failure to Disclose, October 25, 2022

MEDIATION HISTORY:

- WIP Fireside, LLC v. Sequoia Insurance Company | District Court, El Paso County, Colorado | Case number 2016 CV 031547 | Wind and Hail Expert Witness, April 20th, 2017