



# JOHN PETERSON, MS, PE



John Peterson, MS, PE  
Principal Engineer  
719-271-7419  
[Jpeterson@riveteng.com](mailto:Jpeterson@riveteng.com)

## 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  
[www.riveteng.com](http://www.riveteng.com)

## 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 - Summer 2000-2001  
Estimation Intern, G.E. Johnson Construction - Summer 1999

## FORENSIC ENGINEERING EXPERIENCE:

Mr. Peterson has performed over 800 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 several 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:

- 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 24-26, 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, and March 5, 2019, and March 3, 2020.
- "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.
- "IBC Multi-Family Plan Review". Attendee. Colorado Chapter International Code Council Educational Institute, Denver, CO March 7, 2019.
- "Retaining Wall Failures and Repairs". Presenter. Rivet and RE Continuing Education Seminar, Colorado Springs, CO March 22, 2019.