

CADE R. CALDWELL, P.E.



EDUCATION:

B.S. University of Colorado at Denver, Denver, Colorado, 2004

REGISTRATION:

Registered Professional Civil Engineer in the following States:

Colorado, Kansas, Missouri, Nebraska, Oklahoma, Montana, and South Dakota

National Council of Examiners for Engineering and Land Surveying (NCEES) Record Holder

EXPERIENCE:

Director of Engineering, Knott Laboratory, LLC, Centennial, CO, January 2020 to Present, Engineering Manager, Knott Laboratory, LLC, Centennial, CO, January 2018 to January 2020, Engineer, Knott Laboratory, LLC, Centennial, Colorado, January 2015 to January 2018; Consulting Engineer, Engineering Design & Testing Corp., Englewood, CO, 2012–2014; Owner/Principal, CRC Engineering, LLC., Lakewood, CO, 2010–2012; Design Engineer, Ascent Group, Inc., Denver, CO; 2005–2010; Design Engineer, The Weintraub Organization, Centennial, CO, 2004–2005; Survey Crew Chief, Ehrhart Griffin & Associates, Omaha, NE, 1998–2001; Survey Crew Chief, Brosz Engineering, Pierre, SD, 1996-1998

FORENSIC ENGINEERING

Mr. Caldwell has investigated cases involving property damaged by fire, flood, moisture intrusion, inadequate drainage, pipe failure, corrosion, hail, wind, mold, soil subsidence, foundation failure, structural member failure, vehicular collisions, construction defects, and mechanical damage. At Knott Laboratory, Mr. Caldwell conducts structural evaluations and failure analysis on residential and commercial structures, building envelopes and civil systems and has experience in destructive testing, non-destructive testing and simulation of failure modes and scenarios. Mr. Caldwell has experience as an Expert Witness in a variety of legal matters including Construction Defects and repair cost estimations.

ENGINEERING EXPERIENCE:

Mr. Caldwell has over 24 years of experience in many facets of land surveying and civil and structural engineering. Eight years of land surveying experience as a crew chief supervising construction staking and topographical surveys for heavy highway construction, urban and rural roads, residential and commercial buildings, bicycle paths, bridges, hydraulic features and infrastructure, over-lot grading of large land development projects; and legal surveys including research, recovery and re-establishment of property boundaries in compliance with local jurisdictions and standard surveying practices. Eight years of experience as a structural design engineer determining loads and applicable building codes for residential and commercial buildings and the design of structural systems and elements to resist the loads. Design experience with all building materials including masonry, wood and timber, reinforced concrete, structural and light gage steel, and composite building materials. Foundation design including drilled concrete piers, grade beams, spread footings, mat foundations, and Post Tensioned slabs. Eight years of experience as a consulting (forensic) engineer conducting engineering investigations and determining the cause of structural failures. Forensic experience includes roof covering evaluations, building collapses, foundation movement, determining structural integrity of damaged buildings, and sources of water intrusion.

PROFESSIONAL AFFILIATIONS:

Mr. Caldwell is a member of the following technical and professional societies:

ASCE - The American Society of Civil Engineers

SEI - Structural Engineering Institute

EXPERT WITNESS TESTIMONY:

Mr. Caldwell has provided expert witness services at trial and deposition for cases in Colorado and Nebraska. The following is a list of cases in which Mr. Caldwell has been deposed or testified as an expert witness within the last four years:

<u>Date</u>	<u>Case Title</u>
September 2018	Deposition - Thomas L. Nichols v. State Farm Fire and Casualty Company; Douglas County (Nebraska) District Court; Case Number CI 17 1956
January 2019	Deposition – 7800 W. Jewell, LLC. v. Truck Insurance Exchange; Jefferson County (Colorado) District Court; Case Number 2018CV30665
March 2019	Trial - Thomas L. Nichols v. State Farm Fire and Casualty Company; Douglas County (Nebraska) District Court; Case Number CI 17 1956