

Appendix A

Curriculum Vitae

FORENSIC ENGINEERING:

Mr. Stoll has performed investigations as an expert witness involving the construction of building envelopes, structural, and civil projects. Clients have included Attorneys, Building Owners, Property Managers, Insurance Companies, Developers and General Contractors, and Foundation Contractors. Mr. Stoll has investigated and overseen thousands of cases involving property damage from fire, fire suppression systems, flood, moisture intrusion, inadequate drainage, pipe failure, corrosion, hail, wind, mold, soil expansion and subsidence, foundation failure, structural member failure, vehicular collisions, construction defects, and mechanical damage. Mr. Stoll's experience with design and construction from conceptual stage to final building occupancy has given him a thorough understanding of the design/construction process, relevant standards of care and building code requirements, enabling him to accurately identify origins of structural failures. Mr. Stoll has overseen and designed the repairs to a significant number of those investigated failures.



Mr. Stoll is the Principal Engineer of Knott's Foundation Pro Engineering division which specializes in the investigation, design, and implementation of repairs of failed and damaged foundations. Mr. Stoll has evaluated everything from residential foundations to complex commercial foundations. Mr. Stoll has diagnosed the soil characteristic and performance factors of both expansive and collapsible soil that have induced foundation movement and damage. Mr. Stoll has designed proprietary custom brackets for lifting structures.

Mr. Stoll is also a Senior Fire and Explosion Investigator at Knott Laboratory certified in both structure and vehicular fires. Mr. Stoll's experience extends from his operations as an explosive expert in the U.S. Army. Mr. Stoll has investigated fires that originated from mechanical and appliance failures to electrical failures to arson and successfully finalized the cases for various insurance adjusters and attorneys.

ENGINEERING AND DESIGN:

Mr. Stoll has overseen the construction and design of small wood-framed projects to large concrete and steel-framed hospitals and parking garages. Mr. Stoll has specialized in the management and design for restoring distressed and historic structures.

Example Projects:

- Hundreds of repairs to residential and commercial structures as a result of environmental and man-made damages
- Louisville Arena & 3-Story Parking Facility: Special Inspection concrete foundation (\$249 million project)
- University of Louisville Bio-Medical Research Facility: Special Inspection (concrete framed \$140 million project)
- Norton Brownsboro Hospital: Special Inspection (steel framed \$90 million project)
- Multiple Public School Addition Designs and Inspections – Masonry, Steel, and Concrete Framed
- Three Multi-Level Concrete Parking Garages Evaluation & Strengthening
- Louisville Water Company: Condition Assessment of 23 Water Treatment Structural Facilities
- Facility Condition Assessments and repair recommendation/implementation (Grand Junction Regional Airport, Grand Junction High School, Montrose Methodist Church)
- Parker Residence, originally constructed in 1805: Historical restoration. (\$2 million project)
- Delta, Colorado Police Station. 1921 Historic Remodel.
- Montrose, Colorado Rathbone Hotel. 1921 Historic Foundation Stabilization and Remodel.

ACADEMIC CREDENTIALS:

B.S. Civil and Environmental Engineering, University of Louisville, Louisville, KY, May 2009

M.Eng. Civil Engineering, (Structural), University of Louisville, Louisville, KY August 2009

Noncommissioned Officer School, United States Army, May 2002

Private Pilot Certificate, July 2024

LICENSES AND CERTIFICATIONS:

Board-Certified Diplomat in Forensic Engineering, National Academy of Forensic Engineers
Certified Fire and Explosion Investigator, National Association of Fire Investigators (not current)
Certified Vehicle Fire Investigator, National Association of Fire Investigators (not current)
Licensed Professional Civil Engineer, Arizona #68389
Licensed Professional Civil Engineer, California #80885
Licensed Professional Civil Engineer, Colorado #47482
Licensed Professional Civil Engineer, Kansas #23402 (expired)
Licensed Professional Civil Engineer, Minnesota #56256 (expired)
Licensed Professional Civil Engineer, Montana #38385
Licensed Professional Civil Engineer, Nevada #25986
Licensed Professional Civil Engineer, New Mexico #24993
Licensed Professional Civil Engineer, Texas #118353
Licensed Professional Civil Engineer, Utah #8884660-2202
National Council of Examiners for Engineering and Surveying #53483

PRIOR EXPERIENCE:

Project Engineer, Cornerstone Engineering, Inc., Louisville, Kentucky, August 2006 to January 2010;
Graduate Research, University of Louisville, Louisville, Kentucky, May 2008 to August 2010;
Contractor, Burnett Construction, Montrose, Colorado, May 1996 to August 2004;
Combat Engineer, Colorado Army National Guard, August 2003 to August 2004;
Combat Engineer, United States Army, August 1999 to August 2003

TECHNICAL COMMITTEES:

National Council of Structural Engineers Association – Existing Buildings/Structural Retrofit Subcommittee
National Council of Structural Engineers Association – Building Assessment Group – Chair

PROFESSIONAL AFFILIATIONS:

American Society of Civil Engineers	National Fire Protection Association
International Association of Arson Investigators	National Academy of Forensic Engineers
National Academy of Forensic Engineers	National Society of Professional Engineers
National Association of Fire Investigators	Structural Engineering Association of Colorado
National Council of Structural Engineering Association	

PUBLICATIONS AND PRESENTATIONS:

PUBLICATIONS

1. Stoll, S. "Application of Acousto-Ultrasonic Technique in Evaluation of Bond Strength Between Composites and Concrete Substrates" Faculty of the University of Louisville, J.B. Speed School of Engineering. (August 2009).
2. Stanley Stoll and Paul Bennett. "Assessing Wind Damaged Masonite Shingles" Forensic Engineering 5th Congress 2015.
3. Stanley Stoll and Eric Black. "Residential 3D Model Wind Tunnel Pressure Testing" Forensic Engineering 5th Congress 2015.
4. Stanley Stoll, Paul Bennett, James Staebler. "Hail Impact Testing of Masonite Shingles" Forensic Engineering 5th Congress 2015.
5. Kyle Wieghaus, PhD. and Stanley Stoll. "Methodology for Assessing the Thermal Effects of a Wildfire on a Structure" Forensic Engineering 7th Congress 2022 – nominated Congress' Best Paper Award.
6. Stanley Stoll, Samuel Henning, Aaron Bagley, Kyle Wieghaus, PhD. "Foundation Damage Assessments and Structural Repairs" Forensic Engineering 7th Congress 2022.

TECHNICAL CONFERENCES AND SEMINARS

1. "Masonite Roofing." Presenter. Shelter Insurance Company, Highlands Ranch, CO, November 18, 2010.
2. "Masonite Roofing." Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, January 28, 2011.
3. "Introduction to Soils and Foundation Damage." Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, January 28, 2011.
4. "Masonite Roofing." Presenter. Wyoming Claims Association, Cheyenne, WY, May 20, 2011.
5. "Evaluation of Roofing Damage." Presenter. All Phase Continuing Education, All Phase Restoration, Frederick, CO, August 17, 2011.
6. "Residential Cracks, What Causes Them?" Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, September 23, 2011.
7. "Roof Inspections." Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, September 23, 2011.
8. "Plumbing and Mechanical System Failures." Presenter. Colorado Chartered Property Casualty Underwriters, Denver, CO, December 13, 2011.
9. "Hail and Wind Damage Roof Inspections." Presenter. Engle Martin & Associates, Inc, Centennial, CO, April 24, 2012.
10. "Evaluation of Fire and Explosion-Related Damage to Structural Components." Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, August 12, 2012.
11. "Plumbing and Mechanical System Failures." Presenter. Jim Black Construction, Thornton, CO, November 14, 2012.
12. "Evaluation of Fire and Explosion Related Damage to Structural Components." Presenter. Jim Black Construction, Thornton, CO, November 14, 2012.
13. "Fire Investigations and Evidence Preservation" Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, January 25, 2013.
14. "Residential Roof Damage Assessment" Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, January 25, 2013.
15. "The Reason for Reserves, a Building Envelop Class" Presenter. Montrose Realtors Association, Grand Junction, CO, May 12, 2014.
16. "Building Envelopes" Presenter. BluSky Restoration, Edwards, CO, June 4, 2014.
17. "Engineering Expert Witness Case Studies and Current Technology" Presenter. Colorado Defense Lawyers Annual Conference, Telluride, CO, July 26, 2014.
18. "Fire and Explosions Investigations" Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, November 7, 2014.
19. "Fire and Explosions Investigations" Presenter. Knott Laboratory Continuing Education Seminar, Centennial, CO, January 30, 2015.
20. "Hail damage and Laboratory Testing to Residential Roof" Presenter. Knott Laboratory Continuing Education Seminar, Grand Junction, CO, April 10, 2015.
21. "Water Loss and Foundation Movement" Presenter. Knott Laboratory Continuing Education Seminar, Grand Junction, CO, April 10, 2015.
22. "Fire and Explosion Investigations" Presenter. Knott Laboratory Continuing Education Seminar, Grand Junction, CO, April 10, 2015.
23. "Common Construction Defects" Presenter. Knott Laboratory Continuing Education Seminar, Grand Junction, CO, April 10, 2015.
24. "Live Burn" Presenter. Continuing Education Seminar, Colorado Springs, CO, June 13, 2018.
25. "Live Burn" Presenter. Knott Laboratory Continuing Education Seminar, Grand Junction, CO, October 17, 2018.
26. "Structure Fire Damage and Restoration" Presenter. Knott Laboratory Continuing Education Seminar, Grand Junction, CO, October 17, 2018.
27. "Structure Fire Damage and Restoration" Presenter. Continuing Education Seminar, Colorado Springs, CO, December 11, 2018.

28. "Water Loss and Structural Foundation Damage" Presenter. Continuing Education Seminar, Colorado Springs, CO, December 11, 2018.
29. "Live Burn 2019" Presenter. Continuing Education Seminar, Colorado Springs, CO, June 6, 2019.
30. "Water Loss and Foundation Movement" Presenter. Rocky Mountain Property Claims Association, Centennial, CO, September 12, 2019.
31. "Foundation Failures" Presenter. Knott Laboratory, Continuing Education Series, Centennial, CO, February 8, 2021.
32. "The US Legal System and Expert Witnesses" Presenter. Knott Laboratory, Continuing Education Series, Centennial, CO, January 14, 2022.
33. "Laser Scanning our World" Presenter. Knott Laboratory, Continuing Education Series, Centennial, CO, March 25, 2022.
34. "Knott Laboratory Reconstructs a National Spotlight Race Accident" Presenter. HxGN Live 2022, Las Vegas, NV, June 21, 2022.
35. "Capital Improvements – Project Train Wrecks" Presenter. Presenter. Community Associations Institute – 2022 Rocky Mountain Conference, Vail, CO, September 26, 2022.
36. "Foundation Damage Assessments and Structural Repairs" Presenter. Forensic Engineering 7th Congress 2022, Denver, Colorado, November 5, 2022.
37. "Construction Defects" Presenter. Hall and Evans Continuing Education Series, Denver, Colorado, May 4, 2023.
38. "Videogrammetry and Point Clouds: A Novel Approach for Accident & Shooting Reconstructions" Presenter. HxGN Live 2023, Las Vegas, NV, June 14, 2023.
39. National Council of Structural Engineering Association (NCSEA), Attendee. Annual Symposium 2023, Las Angeles, CA. November 7-9, 2023.
40. Hexagon Public Safety and Forensics Conference UK/BNX 2024 Attendee and Presenter. "Videogrammetry & Point Clouds: A Novel Approach for Incident Reconstructions," London, UK. March 20-21, 2024.
41. Structural Engineering Association of Colorado (SEAC), Current State of Building Assessments in the US, Denver, CO July 17, 2024.
42. "Building Investigations and Assessments 101" Presenter. Knott Laboratory, Continuing Education Series, Centennial, CO, August 28, 2024.
43. National Council of Structural Engineering Association (NCSEA), Chair of Building Assessments Webinar Series - 6 part series on Building Assessments. August and September 2024.
44. National Council of Structural Engineering Association (NCSEA), Building Assessments 101 Webinar, Online August 20, 2024.
45. National Council of Structural Engineering Association (NCSEA), Annual Symposium 2024, Las Vegas, NV. November 5-8, 2024.
46. National Council of Structural Engineering Association (NCSEA), Chair of the Building Assessment Summit, November 5, 2024, Las Vegas, NV.
47. National Council of Structural Engineering Association (NCSEA), Annual Symposium 2024, "Webinar Series - Building Assessments: That's a Wrap", Las Vegas, NV. November 6, 2024.
48. National Council of Structural Engineering Association (NCSEA), Annual Symposium 2024, "Red Tag a Building, Are you Crazy?", Las Vegas, NV. November 7, 2024.

FORENSIC BUILDING INVESTIGATION SUMMARY:

Date	Project	Location	Client
Nov-2024	Montrose County Building, Facility Condition Assessment and Emergency Repairs	Montrose, CO	Montrose, County
Aug- 2024	6-Story Concrete Residential Tower with 3-level Parking Structure – Concrete Parking Structure Repairs	Grand Junction, CO	Horizon Tower HOA
July- 2023	6-Story Concrete Residential Tower with 3-level Parking Structure - Facility Condition Assessment and Repairs	Grand Junction, CO	Horizon Tower HOA
Jan- 2023	Early 1900 Stone and Masonry Building – Structural Foundation and Frame Remodel	Montrose, CO	Rathbone Hotels
Aug- 2022	Early 1900 State Armory - Facility Condition Assessment, Foundation Repair, Structural Remodel	Delta, CO	Delta Police Department
Feb- 2022	Early 1900 Stone and Masonry Church - Facility Condition Assessment	Montrose, CO	Montrose Methodist Church
Sept- 2021	Foundation Assessment and Global Site Soil Stability	Rifle, CO	Rider & Quesenberry LLC
Apr-2021	Grand Junction High School, Facility Condition Assessment, and subsequent Structural Repairs.	Grand Junction, CO	Colorado School District 51
Mar-2021	Single Family Residence Construction Defect Assessment and Repairs	Ridgeway, CO	Lori Shepard
Feb-2020	Grand Junction Regional Airport, Facilities Condition Assessment and subsequent Structural and Foundation Repairs	Grand Junction, CO	Grand Junction Regional Airport
Feb-2020	Post-litigation Foundation Damage Remediation – Single Family Residence	Grand Junction, CO	L. Knight
Jan-2020	Residential Design and Construction Assessment - Construction Defects	Grand Junction, CO	Griffiths Law PC
Jan-2020	Single Family Residence Tornado Damage Assessment	Dallas, TX	State Farm Insurance
Jan-2020	Explosion Damage Assessment - Two Single Family Residences	Houston, TX	State Farm Insurance
Jan 2020	Residential Foundation Assessment - Post Real Estate Sale Disclosure	New Castle, CO	Griffiths Law PC
Dec-2019	Foundation Damage Assessment, City of Dinosaur Townhall	Dinosaur, CO	CIRSA
Oct-2019	Plumbing Failure and Structural Damage Assessment	Townsend, MT	State Farm Insurance
Oct-2019	Residential Design and Construction Assessment - Construction Defects	Lakewood, CO	The Litigation Boutique LLC
Sep-2019	Hail Damage Assessment - Appraisal - 9272 700 East	Sandy, UT	Farmers Insurance

Stanley C. Stoll, M.ENG., P.E., DFE, CFEI, CVFI

Date	Project	Location	Client
Sep-2019	3rd Story railing collapse and Fall	Colorado Springs, CO	Heuser and Heuser, LLP
Sep-2019	Foundation Repairs - 2689 Whisper Ct.	Grand Junction, CO	M. Hall
Sep-2019	Hurricane Damage Assessment - Single Family Residence	Ingleside, TX	State Farm Insurance
Aug-2019	Foundation Placement and Cracking Evaluation and Repair	Crested Butte, CO	FCI Construction
Aug-2019	Commercial Building Hail and Wind Damage Assessment and Repairs	Borger, TX	Steadfast Insurance Company
Aug-2019	New Construction Defect Assessment	Snowmass, CO	Cincinnati Insurance
Aug-2019	Snowmass Village Rec Center Flood and Damage Assessment	Snowmass Village, CO	CIRSA
Jul-2019	Foundation Repairs - 581 Tucker Street	Craig, CO	James Diehl
Jul-2019	Water Loss Moisture Damage Assessment - 729 E. Bleeker Street	Aspen, CO	American Family Insurance
Jun-2019	Parapet Wall Structural Load Testing	Aspen, CO	Hanson Construction, Inc.
Jun-2019	4 plex multi-family Complex Fire Repairs	Fruit, CO	Monument HOA
Jun-2019	Tornado Damage Assessment - Single Family Residence	Dallas, TX	State Farm Insurance
May-2019	Residential Foundation Assessment - Construction Defects	Grand Junction, CO	Griffiths Law PC
May-2019	Moisture Intrusion Single Family Residence	El Campo, TX	State Farm Insurance
Apr 2019	Solar Panel Efficiency and Location Evaluation	Avon, CO	Orten Cavanagh & Holmes, LLC
Mar-2019	Residential Foundation Assessment - Post Real Estate Sale Disclosure	Grand Junction, CO	Hoskin, Farina, & Kampf, P.C.
Feb-2019	New Construction Interior Crack Evaluation	Norwood, CO	Acuity Insurance
Feb-2019	Floor Moisture Damage Evaluation - Single Family Residence	Austin, TX	State Farm Insurance
Dec-2018	Retaining Wall Failure and Construction Defect Evaluation - Falcon Terrace	Colorado Springs, CO	Benson, Kerrane, Storz & Nelson, P.C.
Dec-2018	Residential Foundation Assessment - Construction Defects	Grand Junction, CO	Hoskin, Farina, & Kampf, P.C.
Oct 2018	Hurricane Damage Assessment - Wood Pellet Manufacturing Plant	Laurinburg, NC	CJW Insurance
Oct 2018	Hurricane Damage Assessment - 28 Building Multi-family Complex	Wilmington, NC	CJW Insurance
Aug 2018	Residential Design and Construction Assessment - Construction Defects, and Repairs	Montrose, CO	Hoskin, Farina, & Kampf, P.C.

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Date	Project	Location	Client
Aug 2018	Design and Construction Evaluation of 3-Story Concrete Framed Structure	Denver, CO	Benson Kerrane Storz & Nelson P.C.
Aug 2018	Fatal Steel Erection Collapse Evaluation	Severance, CO	OSHA
Jul-2018	3rd Story railing collapse and Fall	Florence, CO	Heuser and Heuser, LLP
Jun-2018	Hail Damage Assessment SW Plains Dairy	Syracuse, KS	Brown Pruitt Wambsgans Ferrill & Dean, PC
June 2018	9 Multi-story Bldg. Post Construction Defect Remediation	Boulder, CO	The Village at Uptown Owners Association
Mar-2018	Foundation and Wall Collapse Evaluation - 1775 Sherman Street	Denver, CO	Boyle/Apelman, PC
Mar 2017	Five Building Early-Development Cracking and Foundation Movement Assessment -	Grand Junction, CO	Shaw Construction
Oct-2016	Post-Litigation Foundation Repairs - 2661 Lookout Lane	Grand Junction, CO	BluSky Restoration
Sep-2016	Industry facility Roof Collapse, Truss Load Testing and Repairs - 559 Sandhill lane	Grand Junction, CO	GJ Textiles
Sep-2016	Construction Collapse and Worker Fall - 347 West Ridges Boulevard	Grand Junction, CO	Ramos Law
Mar-2016	Single Family Residence Foundation Movement Assessment - 127 29 Rd	Grand Junction, CO	Nationwide Insurance
Jan 2016	Solar Panel Efficiency and Location Evaluation	Elizabeth, CO	Orten Cavanagh & Holmes, LLC
Jun 2015	Roadway Access and Easement Access	Delta, CO	Wegener Scarborough Young & Hockensmith LLP
Apr-2015	Single Family Residence Construction Defects and Foundation Movement - 2661 Lookout Lane	Grand Junction, CO	Pryor Johnson Carney Karr Nixon, P.C.
Jun 2010	Light Tower Structural Assessment and Foundation Repairs	Aurora Public School District	Aurora Public School District
2015 to Present	175 Hurricane Damage Assessments	Southern Texas - Beaumont to Brownsville	Various Insurance Carriers
2010 - Present	Hundreds of Hail and Wind Damage Assessment	Colorado, Texas, Oklahoma	Various Insurance Carriers

FORENSIC FIRE INVESTIGATION EXEMPLAR EXPERIENCE:

Date	Project	Location	Client
Nov-2024	Residential Fire Investigation	Mack, CO	State Farm Insurance
Aug-2024	Residential Fire Investigation	Fruita, CO	State Farm Insurance
July-2024	Residential Fire Investigation	Ridgeway, CO	State Farm Insurance
Jan-2020	Residential Garage Explosion	Aspen, CO	Cozen O'Connor and Chubb Insurance



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Date	Project	Location	Client
Nov 2019	Fatal Residential Garage Explosion	Pagosa Springs, CO	Cozen O'Connor and Chubb Insurance
Oct 2019	Caterpillar D10 Bulldozer Fire	Wright, WY	Allianz Global Corporate & Specialty
Aug-2019	Single-Family Garage and Vehicle Fire	Salt Lake City, UT	American Family Insurance
Jul-2019	2015 Volvo Truck Fire	Oakhills, CA	Sedgwick and Hudson Insurance Company
Jun-2019	4-Plex Multi-Family Complex Fire	Fruit, CO	American Family Insurance
May-2019	Wastewater Remediation Plant Explosion	Myton, UT	One Beacon Insurance and Dugan, Brinkmann, Maginnis and Pace
May-2019	Pizza Restaurant Fire, 1195 Bangtail Way	Steamboat Springs, CO	Cincinnati Insurance and Senter Goldfarb & Rice, LLC
May-2019	Residential Explosion Investigation - 16840 N. 3000. W	Moroni, UT	American Family Insurance
Apr-2019	Multi-Family Apartment Fire	Grand Junction, CO	American Family Insurance
Dec-2018	Fatal Multi-family Apartment Complete Fire	Houston, TX	VB Attorneys
Sep-2018	Single-Family Residence Dryer Fire, Lab Exams and Testing	Denver, CO	American Family Insurance and Bodie Enger Law
Mar 2018	Structural fatality Fire	Denver, CO	Pinnacol Insurance
Jan 2015	Commercial Dryer Fire – Laundry Facility SRR	Moab, UT	American Hallmark Insurance Services, Inc.
Apr 2014	Residential Garage Fire and associated Powerlines Blowing in Wind	Delta, CO	Colorado Farm Bureau Mutual Insurance
Jan 2012	Post-Crash Ford Entrapment Fire	Pittsburg, PA	Pribanic & Pribanic