
Erik P. Moore | Senior Engineer/ Flood Manager, P.E.

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Professional Summary:

Mr. Moore is an engineer with a Bachelor of Science degree in civil engineering from Rose-Hulman Institute of Technology in Terre Haute, Indiana. He has over 18 years of progressive experience in the fields of structural engineering, inspection, construction, maintenance of bridges and failure analysis. He has held positions with the Indiana Department of Transportation (INDOT) and Pennsylvania Department of Transportation (PENNDOT). Mr. Moore has also worked with the Federal Emergency Management Agency in flood recovery and damage reimbursement as an onsite expert.

- Structural Engineering
- Bridge and Highway Construction, Design and Maintenance
- Certified Bridge Inspector
- Flood Recovery
- Damage Reimbursement
- Structural Design
- Airport Construction Procedures
- Designing Schools, Hospitals and Long-Term Care Facilities

Licenses and Certifications:

Professional Engineer, Alabama, #30775
Professional Engineer, Alaska, #129115
Professional Engineer, Arizona, #52747
Professional Engineer, Arkansas, #15294
Professional Engineer, Colorado, #45555
Professional Engineer, Connecticut, #PEN0030948
Professional Engineer, Delaware, #17687
Professional Engineer, Florida, #72847
Professional Engineer, Georgia, #PE036416
Professional Engineer, Idaho, #14771
Professional Engineer, Indiana, #PE11100383
Professional Engineer, Iowa, #21189
Professional Engineer, Kansas, #22303
Professional Engineer, Kentucky, #28603
Professional Engineer, Louisiana, #35215
Professional Engineer, Maine, #13124
Professional Engineer, Maryland, #41079

Professional Engineer, Massachusetts, #51875
Professional Engineer, Michigan, #6201060223
Professional Engineer, Minnesota, #48607
Professional Engineer, Mississippi, #19568
Professional Engineer, Missouri, #PE-2010032458
Professional Engineer, Montana, #20321
Professional Engineer, Nebraska, #E14688
Professional Engineer, New Hampshire, #15598
Professional Engineer, New Mexico, #20724
Professional Engineer, North Carolina, #038345
Professional Engineer, North Dakota, #PE-7036
Professional Engineer, Ohio, #77038
Professional Engineer, Oklahoma, #26513
Professional Engineer, Oregon, #87042PE
Professional Engineer, Pennsylvania, #076504
Professional Engineer, Rhode Island, #12507
Professional Engineer, South Carolina, #299278
Professional Engineer, South Dakota, #10345
Professional Engineer, Tennessee, #114134
Professional Engineer, Texas, #117249
Professional Engineer, Utah, #8059741-2202
Professional Engineer, Vermont, #81074
Professional Engineer, Virginia, #0402047852
Professional Engineer, Washington, #52315
Professional Engineer, Washington, DC, #907005
Professional Engineer, West Virginia, 19698
Professional Engineer, Wisconsin, #43151-6
Professional Engineer, Wyoming, #PE13180
National Highway Institute (NHI) Certified Bridge Inspector
National Association of Mold Professional (NAMP) Certified Mold Investigator and Remediator
Transportation Worker Identification Credential (TWIC) holder
Occupational Safety and Health Administration (OSHA) 40 hour Hazardous Waste Operations and
Emergency Response (HAZWOPER)
ERailSafe
Florida Asbestos Inspector (2017)

Project Experience:

GHD, Chickasaw, AL

Stormwater Evaluation and Residential Flooding

Reviewed stormwater management plan and design for municipal site for defense of lawsuit brought by downstream homeowner contending flooding of his property resulted due to development. Served as defense expert.

GHD, Hamilton, TX

Roadway Evaluations

Reviewed miles of paved and unpaved roads and culverts for insurance company of contractor that allegedly damaged facilities due to hauling of equipment during pipeline construction.

GHD, Savannah, GA

EOA Headstart Center Porte-cochere damage

Performed structural damage assessment of porte-cochere over school entrance for insurance company of trucking company that damaged it while attempting to enter with an over height truck.

GHD, Carlisle, PA

Glass Panel Assessment

Reviewed and oversaw testing of large glass panels in commercial greenhouse to determine cause of inexplicable breakage.

GHD, Bainbridge, GA

Storage Tank Assessment

Performed review of 2 mil gallon storage tank to evaluate repairs for insurance company of contractor. Evaluated welds from test data and opined to cause of damage.

GHD, Clarksville, PA

Pollocks Mill Road Bridge Damage

Performed structural damage assessment of historical bridge over environmentally sensitive stream in rural PA for insurance company of trucking company that damaged decking and structural members while attempting to cross with overweight load.

GHD, High River, Alberta, Canada

Wallaceville Flood Mitigation

Performed structural evaluations and consulted with provincial representatives on costs and possibility of relocation of several residential and multi-story condominium buildings after flooding High River, AB. Oversaw hazardous materials survey and testing, mold testing, and crew of engineers and technicians as field manager.

GHD, Belpre, OH

SR 339 Bridge Impact

Performed structural damage assessment of multi span multi segment highway bridge over state highway outside of Belpre, OH for insurance company of trucking company that impacted the bridge with an oversize load.

GHD, Tillamook, OR**Tillamook Railroad Bridge Impact**

Performed structural damage assessment of multi span multi segment railroad bridge over state highway in Tillamook, OR for insurance company of trucking company that impacted the bridge with oversize load.

GHD, Grants, NM**Building Demolition Assessments**

Evaluated several buildings set for demolition at uranium mining site being reclaimed. Performed structural assessments of buildings, recommended demolition strategies and performed analysis to demolish a 125' water tower. Also evaluated steel bridge at site for future use as a hauling road.

GHD, Trainer, PA**Building Demolition Assessments**

Performed structural assessment to evaluate whether additional engineering is required to safely separate and remove the buildings scheduled for demolition as part of the Response Action Plan (RAP) for the Metro Container Superfund Site.

GHD, Nationwide**Flood Damage Assessments**

Damage evaluations for commercial, residential and historical structures for numerous clients resulting from flooding to determine effects of flood velocity and hydrostatic pressure. Commercial and residential damage assessments performed throughout the United States. Completed 100+ files for Hurricane Irene and oversaw 30+ engineers complete approximately 1800 files as catastrophe manager. Completed 130+ files for Hurricane Sandy and oversaw 30+ engineers complete approximately 2800 files as catastrophe manager.

GHD, Atlantic City, NJ**Cho v South Jersey Gas**

Performed structural inspection of residence pose Hurricane Sandy and served as defense expert for storm related damage versus damage done during repairs to the residential gas line prior to store event.

GHD, Daphne, AL**Cook v City of Daphne**

Performed structural inspection of residential structure affected by HDPE storm water drain pipe that collapsed and failed. Served as defense expert.

GHD, Prichard, AL**LeSuer v Prichard Water and Sewer Authority et al**

Performed site evaluation/survey to determine flow of discharge from manholes. Served as defense expert.

GHD, Santa Rosa Beach, FL**Redfish Village COA v Montgomery Martin Contractors et al**

Performed structural inspection and research for general contractor detailing various construction defects on 4 mixed use multi story buildings. Served as defense expert.

GHD, Pensacola, FL

Gulf Winds HOA v Citizens Property Insurance

Performed structural inspection and research detailing concrete corrosion related to storm damage as a defense expert.

GHD, Destin, FL**Shoreline Towers HOA v Citizens Property Insurance**

Performed structural window frame inspections on numerous units for hurricane related damage and thermal imaging as a defense expert.

Professional Experience:

IN Department of Transportation, Vincennes, IN, Asst. Project Engineer, 1997-1998

Lee-Simpson Associates, DuBois, PA, Jr. Engineer, 1998-2000

PA Department of Transportation, Greensburg, PA, Asst. Highway Maintenance Manager, 2000-2007

Rimkus Consulting Group, Pensacola, FL, Associate Engineer, 2007-2009

HSA Engineers and Scientists/CRA/GHD, Pensacola, FL, Senior Engineer, 2009-2017

Education:

Bachelor of Science, Civil Engineering, Rose-Hulman Institute of Technology, Terre Haute, IN, 1997

Affiliations:

American Society of Civil Engineers (ASCE)
American Society for Testing and Materials (ASTM)
American Concrete Institute (ACI)
Gulf Coast Association of Insurance Professionals
Structural Engineers Association of Alabama

Publications and Presentations:

Moore, Erik P. & Katherine Rubin, "Can a Single Flood Event Result in Fungal Growth Beneath Tile", American Society of Civil Engineers Forensic Engineering 7th Congress, November 2015

"Can a Single Flood Event Result in Fungal Growth Beneath Tile", American Society of Civil Engineers Forensic Engineering 7th Congress, Miami, FL – November 2015

"Ceramic Floor Tile: Installation, Failures and Flood Damage", Insurance Adjusters, NACA Convention, Las Vegas, NV – January 2017

"Ceramic Floor Tile: Installation, Failures and Flood Damage", Insurance Adjusters, Crawford and Company Catastrophe Conference, Dallas, TX - April 2016, Tampa, FL - March 2016

"Ceramic Floor Tile: Installation, Failures and Flood Damage", Insurance Adjusters, SIS Group, Tampa, FL - March 2016

- "Ceramic Floor Tile: Installation, Failures and Flood Damage", Insurance Adjusters, Advanced Adjusters Conference, New Orleans, LA - February 2016
- "Flood Engineering 101: Basics of Flood" Insurance Adjusters, Crawford and Company Catastrophe Conference, Dallas, TX - April 2016, Tampa, FL – March 2016
- "Structural Damage Due to Snow and Ice Loading" Insurance Adjusters, Advanced Adjusters Conference, New Orleans, LA - February 2016
- "Structural Damage Due to Snow and Ice Loading", Insurance Adjusters, Crawford and Company Catastrophe Conference, Tampa, FL - May 2015, Dallas, TX – March 2015
- "Roofing Technology: Damage Assessments", Insurance Adjusters, NACA Convention, Las Vegas, NV – January 2017
- "Roofing Technology: Damage Assessments", Insurance Adjusters, Mid-American Catastrophe Annual Conference, Biloxi, MS – January 2016
- "Roofing Technology: Damage Assessments", Insurance Adjusters, Seibel's Catastrophe Conference, Boca Raton, FL – April 2015
- "Roofing Technology: Damage Assessments", Insurance Adjusters, Capital Preferred Insurance, Tallahassee, FL – March 2015
- "Roofing Technology: Damage Assessments", Insurance Adjusters, Mid-American Catastrophe Annual Conference, Biloxi, MS – February 2015
- "Roofing Technology: Damage Assessments", Insurance Adjusters, CRA Seminar, ALAGAS Headquarters, Birmingham, AL – December 2013
- "Roofing Technology: Damage Assessments", Insurance Adjusters, PUR Insurance Adjuster Training, PUR Headquarters, White Plains, NY – September 2013
- "Roofing Technology: Damage Assessment", Insurance Adjusters, Providence Mutual Fire Insurance Conference, Warwick, RI – July 2013
- "Flood Engineering 201: Hydrostatic and Hydrodynamic Forces", Insurance Adjusters, NACA Convention, Las Vegas, NV – January 2017
- "Flood Engineering 201: Hydrostatic and Hydrodynamic Forces", Insurance Adjusters, Crawford and Company Catastrophe Conference, Tampa, FL – May 2015, Dallas, TX – March 2015
- "Flood Engineering 201: Hydrostatic and Hydrodynamic Forces", Insurance Adjusters, National Association of Catastrophe Adjusters Conference, Las Vegas, NV – January 2015
- "Flood Engineering 201: Hydrostatic and Hydrodynamic Forces", Insurance Adjusters, Jackson Adjusting Annual Seminar, Orlando, FL – April 2014
- "Flood Engineering 201: Hydrostatic and Hydrodynamic Forces", Insurance Adjusters, Crawford and Company National Seminar, Dallas, TX – March 2014
- "Flood Engineering 202: Erosion, Scour and Foundation Movement", Insurance Adjusters, NACA Convention, Las Vegas, NV – January 2017
- "Flood Engineering 202: Erosion, Scour and Foundation Movement", Insurance Adjusters, Crawford and Company Catastrophe Conference, Tampa, FL – May 2015, Dallas, TX – March 2015
- "Flood Engineering 202: Erosion, Scour and Foundation Movement", Insurance Adjusters, NCC Claims Difference Makers Conference, New Orleans, LA – February 2015
- "Flood Engineering 202: Erosion, Scour and Foundation Movement", Insurance Adjusters, National Association of Catastrophe Adjusters Conference, Las Vegas, NV – January 2016
- "Flood Engineering 202: Erosion, Scour and Foundation Movement", Insurance Adjusters, Crawford and Company National Seminar, Dallas, TX – March 2014

- "Flood Engineering 202: Erosion, Scour and Foundation Movement", Insurance Adjusters, SIMSOL Adjuster Training, Fort Walton Beach, FL – March 2014
- "Common Failures of Flooring Material", Insurance Adjusters, IMS Catastrophe Conference, Bradenton, FL – May 2015
- "Wind vs. Wave Damage", Insurance Adjusters, Centauri Insurance Catastrophe Annual Conference", Biloxi, MS – April 2015
- "Wind vs. Wave Damage", Insurance Adjusters, Mid-American Catastrophe Annual Conference, Biloxi, MS – February 2015
- "Wind vs. Wave Damage", Insurance Adjusters, Crawford and Company National Seminar, Dallas, TX – April 2013
- "Catastrophe Overview: Wind/Hail/Tornado", Insurance Adjusters, ASI Insurance Cat Meeting, St. Petersburg, FL – March 2014
- "Super Storm Sandy: Lessons Learned", Insurance Adjusters, PUR Insurance Adjuster Training, PUR Headquarters, White Plains, NY – September 2013
- "Super Storm Sandy: Lessons Learned", Insurance Adjusters, CNC Resources Adjuster Training, Mobile, AL – August 2013
- "Super Storm Sandy: Lessons Learned", Insurance Adjusters, Narragansett Insurance/Blue Cod Technologies Conference, Marlborough, MA – July 2013
- "Super Storm Sandy: Lessons Learned", Insurance Adjusters, Providence Mutual Fire Insurance Conference, Warwick, RI – July 2013
- "Super Storm Sandy: Lessons Learned", Insurance Adjusters, SCS Catastrophe Conference, Edison, NJ – July 2013
- "Super Storm Sandy: Lessons Learned", Insurance Adjusters, HSA Lunch and Learn, Pensacola, FL – July 2013
- "Super Storm Sandy: Lessons Learned", Insurance Adjusters, IMS Catastrophe Conference, Bradenton, FL – June 2013
- "Super Storm Sandy: Lessons Learned", Insurance Adjusters, Seibel's Catastrophe Conference, Boca Raton, FL – May 2013
- "Engineering Flood Damage", Insurance Adjusters, SIMSOL Adjuster Training, Fort Walton, FL – April 2013
- "Engineering Flood Damage", Insurance Adjusters, OneSource Adjusters/Southeast Catastrophe Seminar, Tampa, FL – August 2012
- "Engineering Flood Damage", Insurance Adjusters, Cranfill, Sumner and Hartzog for NCDOI Flood Adjuster Certification Video, Raleigh, NC – May 2012
- "Engineering Flood Damage", Insurance Adjusters, HSA West Palm Beach Seminar, Ft. Lauderdale, FL – May 2012
- "Engineering Flood Damage", Insurance Adjusters, Crawford and Company National Seminar, Dallas, TX – April 2012
- "Engineering Flood Damage", Insurance Adjusters, HSA Lunch and Learn, Orlando, FL – March 2012, Jacksonville, FL – February 2012
- "Engineering Flood Damage", Insurance Adjusters, CNC Resources, Inc. Adjuster Training, Mobile, AL – March 2012, June 2011
- "Engineering Flood Damage", Insurance Adjusters, SIMSOL Adjuster Training, Ft. Walton Beach, FL – March 2012

"Environmental Flood Damage", Insurance Adjusters, Evans Claims Services Adjuster Conference, Huntsville, TX – February 2013

"Environmental Flood Damage", Insurance Adjusters, National Association of Catastrophe Adjusters Conference, Houston, TX – January 2013

"Lessons Learned: Hurricane Irene Foundation", Insurance Adjusters, Torrent Technologies, Kalispell, MT – July 2012

"Flood Engineering Inspection Certification Training", HSA/CRA Certification Training, Tampa, FL – June 2012, Atlanta, GA – June 2011

"Wind vs. Surge Damage", Insurance Adjusters, SIMSOL Adjuster Training, Ft. Walton Beach, FL – April 2012, March 2012

"Flood Catastrophe Response", Insurance Adjusters, National Association of Catastrophe Adjusters Conference, Las Vegas, NV – January 2012

"Foundation Damage", Soils class students, University of South Alabama, Mobile, AL – April 2011

"Settlement Damage", Geotechnical Engineering students, University of South Alabama, Mobile, AL – November 2010

"Ground Vibrations", Insurance Adjusters, HSA Lunch and Learn, Pensacola, FL – November 2010

"Concrete Placement, Testing, QA/QC and Damage", Civil Engineering Materials students, University of South Alabama, Mobile, AL – November 2010

"Roofing Technology and Hail Damage Assessments", HSA Seminar, Destin, FL – August 2010

"Roofing Technology and Hail Damage Assessments", Integrity Catastrophe Services 2010 CAT Conference, Mobile, AL – May 2010

"Ceramic Floor Tile Failures", Insurance Adjusters, HSA Lunch and Learn, Pensacola, FL – January 2010

**Litigation CV available upon request.