



UPDATED: February 2023
 YEARS WITH FIRM: 13
 YEARS IN INDUSTRY: 13

EDUCATION

NC State University | Raleigh, NC

Master of Science, Civil Engineering:
 Structures and Mechanics, 2009

Mansfield University of Pennsylvania | Mansfield, PA

Bachelor of Science, Applied Mathematics
 and Physics, 2005

PREVIOUS EXPERIENCE

Montana Technological University

Adjunct Faculty [August 2020 - present]

Grad Research Assistant, NCSU [2007-2009]

Engineering Assistant, NCDOT, [2006]

Transportation Construction Inspector:
 Level III, NYDOT, [2005]

REGISTRATIONS

Professional Engineer: FL #82984

Professional Engineer: GA #048437

Professional Engineer: NC #044980

Professional Engineer: NY #82984

Professional Engineer: SC #34000

IIBEC: Registered Building Enclosure Consultant (RBEC®) #0065

IIBEC: Registered Exterior Wall Consultant (REWC®) #0094

IIBEC: Registered Roof Consultant (RRC®) #900

IIBEC: Registered Waterproofing Consultant (RWC®) #0125

IIBEC: Registered Roof Observer (RRO®) #2078

PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE)

American Society of Civil Engineers (ASCE) Committee Member (FED)

Chair of Committee on Forensic Investigations (CFI) [2020 - present]

National Society of Professional Engineers (NSPE)

International Institute of Building Enclosure Consultants (IIBEC)

IIBEC Interface Peer Review Committee Member

Chair of Interface Editorial Committee [2021 - present]

Structural Engineering Association of South Carolina (SEA of SC)

Greenville Chapter President [2018-2019]

Greenville Chapter Secretary [2020-Present]

PRINCIPAL AREAS of PRACTICE

- Deficient Construction
- Structural Analysis
- Collapse and Damage Investigation
- Repair Projects

John C. Wylie has over thirteen (13) years of experience as an forensic / structural engineer and consultant, primarily in the areas of deficient construction, structural analysis, collapse/damage investigations, and repair projects. He is licensed as a Professional Engineer in five (5) states and a Registered Building Enclosure Consultant (RBEC®), Registered Roof Consultant (RRC®), Registered Wall Consultant (RWC®), Registered Exterior Wall Consultant (REWC®), and Registered Roof Observer (RRO®) with the International Institute of Building Enclosure Consultants.

John is responsible for the inspection and structural analysis of a wide variety of building enclosure and framing systems that include roof, wall, and guardrail systems. John is an Adjunct Instructor at Montana Tech University for their Building Inspections course, has been published in several industry publications, and has presented several technical papers at national and regional conferences.

DEFICIENT CONSTRUCTION

- Investigation of building enclosure and structural issues of residential structures | multiple locations in SC and NC
- Investigation of building enclosure issues of residential structures | multiple locations in SC
- Investigation and assessment of building enclosure and structural issues of residential structures | SC
- Investigation of building enclosure and wood truss roof system of residential structures | multiple locations in SC
- Investigation and assessment of building envelope and structural issues of residential structure | SC
- Investigation and assessment of structures issues of residential structures | GA
- Investigation of structural issues for residential structures | SC
- Investigation and assessment of exterior cladding of residential structure | SC

STRUCTURAL ANALYSIS

- Investigation and assessment of residential above-ground pool caused by wind event | GA
- Investigation and assessment of residential masonry chimney | multiple locations in GA
- Investigation and assessment of retaining wall collapse | multiple locations in SC
- Investigation of wood truss roof system | SC
- Investigation and assessment of residential siding attachment | NC
- Investigation and assessment of aluminum framed enclosure of single family residence | SC
- Assessment of multi-family condominium handrail attachment | SC
- Investigation and assessment of autoclaved aerated concrete block foundation and exterior walls of single family residence | NC
- Investigation and assessment of residential structural framing issues | NC
- Investigation and assessment of building enclosure and structural issues for residential structures | multiple locations in SC
- Investigation and assessment of pre-engineered metal building including standing seam metal roof, steel bar joint, steel girders and steel columns | SC
- Investigation and assessment of structural wood pile foundation of residential structures | SC
- Design of wood framed gazebo | SC
- Investigation and assessment of light-gauge metal exterior framing of condominium high-rise and mid-rise residential structures | multiple locations in SC
- Design of light-gauge metal framed marina dock, LA

COLLAPSE and DAMAGE INVESTIGATION

- Investigation of structural damage to residence caused by tree impact | multiple locations in SC
- Investigation of structural damage to residence caused by earthquake | SC
- Investigation of structural damage to residence caused by vehicle impact | TN
- Investigation of structural damage to residence caused by wind event | TN
- Investigation of damage to boat dock caused by wind event | GA
- Investigation of residential roof system caused by wind and hail event | GA
- Investigation of wood truss roof system deteriorated due to Fire Retardant Treatment (FRT) | SC
- Investigation and assessment of residential modular roof system failure | SC
- Investigation of collapse of a large-scale commercial SPF roof structure | SC
- Investigation of in-ground swimming pool surface cracking at residence | SC
- Investigation of low-slope rubber paver issues at commercial roof | SC
- Investigation of structural steel television tower collapse | SC
- Investigation of damage to residences caused by vibration events | SC
- Investigation of damage to residences caused by blasting events | SC
- Investigation of reinforced concrete slab-on-grade airplane taxi area | SC
- Investigation of light-gauge metal roofing truss collapse | SC
- Investigation of structure damage caused by termites at residence | SC
- Investigation of low-slope roof collapse of commercial building | SC
- Investigation of damage to boat docks caused by wind and/or wave events | multiple locations, SC
- Investigation of residential structure damaged by fire | SC
- Investigation of hotel structure damaged by fire | SC

PRESENTATIONS and PUBLICATIONS

- Peer Reviewer: Wylie, J.: Investigation of Constructed Facilities – Sampling Methodologies, American Society of Civil Engineers (ASCE) - Committee on Forensic Investigations – Forensic Engineering Division, American Society of Civil Engineers, Reston, VA (2021)
- Author: Wylie, J.: **“Tornadoes vs. the Building Enclosure - A Case Study”** IIBEC Interface: September 2021 | Vol. XXX-IX No. 9
- Author: Wylie, J.: **“What (Not) To Expect When You Are Expecting New Fenestrations - A Case Study”** IIBEC Interface: April 2021 | Vol. XXXIX No. 4

PRESENTATIONS and PUBLICATIONS CONTINUED

- Author: Wylie, J.: **“U.S. Building Enclosure Resource Guide”**, IIBEC Interface: September 2020 | Vol. XXXIX No. 4
- Author: Wylie, J.: **“Anatomy of Construction Litigation — An IIBEC Interface Collection”**, by Derek Hodgkin, RBEC, RRO, PE, CDT, and John Wylie, REWC, RRO, PE, IIBEC Interface: January 2021.
- Author: Wylie, J.: **“Anatomy of Construction Litigation, Part 1 - Identification of Defects”**, IIBEC Interface: August 2019 | Vol. XXXVIII No. 9
- Author: Wylie, J.: **“Evaluating The Adequacy of Siding Attachment”**, IIBEC Interface: July 2019 | Vol. XXXVII No. 7
- Presenter: Wylie, J.: **“Why Window Why? Water Testing Problems and Solutions”**, IIBEC Charleston Meeting, Charleston, SC. April, 2019.
- Presenter: Wylie, J.: **“Best Practices for Structural Engineering”**, CSE Seminar Dealing with the Challenges of Mid-Rise Wood Frame Construction”, Clemson, SC. July 2017; Atlanta, GA. August 2017; Raleigh, NC. November 2017.
- Presenter: Wylie, J.: **“Dealing with the Challenges of Mid-Rise Wood Frame Construction”**, Mid-Atlantic Chapter IIBEC (RCI) Seminar. Jessup, MD. October 2017.
- Presenter: Wylie, J.: **“Lessons Learned During Sliding Glass Door Replacement and Concrete Balcony Repairs in a Hurricane Coastline”**, 31th IIBEC (RCI) International Convention and Trade Show, Orlando, FL, March 2016
- Presenter: Wylie, J.: **“Tale of Two Stones”**, The 12th North American Masonry Conference. Denver, CO. May 2015. American Society of Civil Engineers (ASCE) Forensic Engineering 7th Congress Conference. Miami, FL. November 2015.
- Presenter: Wylie, J.: **“A Building’s First Line of Defense: The Exterior Cladding”**, CSE Load Path Seminar. Clemson, SC. November 2015.
- Presenter: Wylie, J.: **“Case Study on Code Shortcomings Regarding Stone Veneer Requirements”**, 2015 WCA Spring Conference. Mount Pleasant, SC. March 2015.
- Presenter: Wylie, J.: **“Siding Attachment: Facts + Fantasies”**, CSE Understanding Building Envelope Failures. Clemson, SC. June 2013. 28th IIBEC (RCI) International Convention and Trade Show. Anaheim, CA. March 2014.
- Author: Wylie, J.: **“Experimental Testing of Unreinforced Masonry Walls Strengthened with Orthogonal Near-Surface Mounted CFRP Subject to Out-of-Plane Loading”**, a thesis submitted to the Graduate Faculty of North Carolina State University. 2009.