

Johann E. Weekes

PhD, PE

Senior Staff Consultant



Dr. Weekes is a Staff Consultant with an emphasis in structures at Engineering Systems Inc. (ESi). Over his academic career at the University of Florida, Dr. Weekes has conducted or been involved in both the experimental (destructive and non-destructive) testing and analytical research of wind damages on structures due to the occurrences of high wind events. After graduation, Dr. Weekes worked for 3 years as a structural designer, working on the analysis and design of large commercial, commercial residential, retail, and medical facilities.

Dr. Weekes has the technical, as well as the hands-on background and experience necessary to understand the functionality and purpose of the individual elements comprising the structural system in its entirety. Mr. Weekes has experience in the determination of structural and material failures as related to storm damage, water intrusion, improper construction techniques, and normal wear and tear.

Education

PhD, Civil Engineering (Structural). University of Florida. 2014

MS, Civil Engineering (Construction Management and Structural Engineering). University of Florida. 2007

BS, Civil Engineering. University of Florida. 2004

Licenses & Certifications

State of Florida P.E. License 92967

Languages

English

Positions Held

Engineering Systems Inc., Miami, Florida

- Senior Staff Consultant, 2023 – Present
- Staff Consultant, 2019–2023

Stanley Lindsey and Associates, Atlanta, Georgia

- Structural Designer, 2015–2018

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Areas of Specialization

- Property Loss Investigations
- Cause and Origin Damage Assessments
- Roof Damage Assessments (Hail & Wind)
- Water Leakage Investigations
- Building Envelope Investigations
- Structural Design & Analysis

Project Experience

Building Codes Utilized Throughout Engineer Career

Florida Building Code (FBC), International Building Code (IBC), American Concrete Institute (ACI) ACI 318 – Building Code Requirements for Reinforced Concrete, Various ASTM standards, American Institute of Steel Construction (AISC) Manual of Steel Construction, The Aluminum Association -Aluminum Design Manual - Specifications for the Design of Aluminum Structures, American Association of State Highway and Transportation Officials (AASHTO) Bridge Design Specifications and Standard Specifications for Highway Bridges, Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction, American Society of Civil Engineers (ASCE) ASCE 7 – Minimum Design Loads for Buildings and Other Structures, as well as many others.

Presentations

“Modeling the vulnerability of mid/high rise commercial residential buildings to wind and rain in tropical cyclones ”. **J. Weekes**, J. P. Pinelli, T. Johnson, K. Gurley, G.L. Pita (2013) ICCOSAR13, 11th Int'l Conf. on Structural Safety and Reliability, New York, NY.

“Physical Damage Modeling of Commercial-Residential Structures in Hurricane Winds”. **J. Weekes**, A. Balderrama, K. Gurley, J. P. Pinelli, G.L. Pita, S. Hamid (2009), 11th American Conference of Wind Engineering, Puerto Rico.