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# Cole W. Graveen

P.E., S.E.  
Senior Engineer

## About Cole

Cole Graveen has 20 years of structural engineering experience in structural analysis, field investigation, nondestructive evaluations, condition surveys, and repair design of cast-in-place and precast concrete, steel, and timber structures.

An expert in structural analysis, Mr. Graveen utilizes the latest computer software technology to perform finite element modeling and other analyses to evaluate structural capacity and serviceability for new design, repair design, and as-built condition assessments. His analyses have been applied to the design of repairs for building frames, components, and connections for concrete, steel, and timber construction.

He has extensive knowledge in building code interpretation, compliance, development, and building plan review. As a member of the International Building Code, Structural Code Committee, he has reviewed and made recommendations related to proposed changes to the structural provisions of the International Building Code and the International Residential Code.

Prior to RRJ, he served on the technical staff of BOCA International, Inc., providing building code interpretations for design professionals and code officials and performing evaluations of building products and systems for compliance with BOCA National Codes—one of the legacy model codes that existed prior to the International Code.

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## Education

Master of Science in Civil Engineering, 2001  
Purdue University

Bachelor of Science in Civil Engineering, 1997  
Marquette University

## Licensure | Certification

Structural Engineer IL and N.V.

Professional Engineer IL

## Professional Affiliations

American Society of Civil Engineers (ASCE)  
ASCE 7 Minimum Design Loads and Associated Criteria for  
Buildings and Other Structures Standard  
7-22 Main Committee  
7-22 Dead and Live Loads Subcommittee (Vice-  
Chairman)  
7-16 Dead and Live Loads Subcommittee

## Professional Affiliations cont.

International Code Council (ICC)  
International Building Code-Structural Code  
Committee for 5 Code Update Cycles, 2006-2017  
International Residential Code-Building Code  
Committee for 2018-2019 ICC Code Cycle  
American Institute of Steel Construction (AISC)  
American Concrete Institute (ACI)



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## Publications | Presentations

"ASCE 7 Standard Update Process and Highlights of the Upcoming 2022 Edition," Structural Engineering Institute Maryland Chapter, January 2022, Presentation

"Understanding the ICC Code Development Process," *Suburban Building Officials Conference*, March 2021, Presentation

"Investigative Peer Reviews. What are They, Really, and What do They Entail?," *Structure Magazine*, March 2021

"What is the Difference Between a Ridge Beam and a Ridge Board," *JLConline*, October 2020

"Structural Insulated Panels - Repair Considerations," *RRJ Insight* Issue No. 30, August 2013

"Implementation of Performance-Related Specifications in Indiana," Midwest Concrete Consortium Conference, Indianapolis, IN, 2000