



Brian T. Lammert

S.E., P.E.

ASSOCIATE PRINCIPAL

RATHS, RATHS & JOHNSON, INC.

CONTACT

630.819.5483 D

312.259.1608 M

630.325.6160 O

✉ btlammert@rrj.com

EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Master of Science in Civil
Engineering Focus in Structural
Engineering

Bachelor of Science in Civil
Engineering, Highest Honors
Specialization in Structures
Minors in Technology &
Management and International
Studies in Engineering

EXPERTISE

- Field Investigation
- Structural Analysis and Design
- Field and Laboratory Testing
- Failure Investigation and Analysis
- Repair and Rehabilitation

PROFILE

Brian Lammert brings 20 years of specialized forensic structural engineering experience, combining field investigation expertise with advanced testing and analysis capabilities, to solve complex structural and building enclosure problems. His comprehensive engineering expertise spans structural design peer review, detailed structural analysis, and development of repair design drawings and construction documents for both aged buildings and new structures across diverse project types including aviation terminals, stadiums, bridges, residential buildings, resorts, and healthcare facilities located throughout the U.S. and globally. Brian leads investigations involving detailed condition surveys and documentation of cladding systems and structural materials including steel, concrete, masonry, wood, and stone, utilizing his expertise in computer modeling of existing structures and structural components to perform thorough capacity evaluations. As an expert in field and laboratory testing, he designs and implements experimental tests to evaluate structural performance and determine collapse causes through failure reconstruction testing for litigation-related claims. His structural analysis capabilities include advanced computer modeling, calculation review, and multi-material design experience, making him a versatile forensic engineer capable of addressing the full spectrum of structural distress, building enclosure failures, and collapse investigations.

LICENSURES & CERTIFICATIONS

- Structural Engineer IL
- Professional Engineer IL, IN, MN, OH, and SD
- Construction Documents Technologist (CDT)

PROFESSIONAL ORGANIZATIONS

- American Institute of Steel Construction (AISC)
- American Society of Civil Engineers (ASCE)
- American Concrete Institute (ACI)
- ASTM International
- Indiana Structural Engineers Association (ISEA)
- Structure Engineering Institute (SEI)

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PRESENTATIONS



- “A Perfect Storm: The Indiana State Fair Stage Canopy Collapse,” Lunch-n-Learn Seminar, Society of Illinois Construction Attorneys, Chicago, IL, K.R. Hoigard and B.T. Lammert, June 21, 2016.
- “Tall Curtain Wall Systems and Large Seismic Drift,” North American Steel Construction Conference-The Steel Conference, Orlando, FL, R.W. Kritzer and B.T. Lammert, April 13-15, 2016.
- “When 1 Test is Worth More Than 10 Expert Opinions,” Construction SuperConference, San Diego, CA, O.C. Guedelhoefer and B.T. Lammert, December 2015.
- “Using an Alternative Method of Analysis to Evaluate Punching Shear Capacity in Existing Pre-Tensioned Shear Reinforced Concrete Floor Slabs,” Proceedings of the 2015 Structures Congress, Portland, OR, R.W. Kritzer, B.T. Lammert, W.J. Macicak, and O.C. Guedelhoefer, April 24, 2015.
- “Designing Plaza Hardscapes,” The Construction Specifier, B.T. Lammert and K.R. Hoigard, April 2014.
- “Plaza Construction – What Lies Beneath,” RRJ Insight Issue No. 29, B.T. Lammert and K.R. Hoigard, June 2012.
- “Material Strength Considerations in Dimension Stone Anchorage Design,” Dimension Stone Use in Building Construction, ASTM STP 1499, K.R. Hoigard and M.J. Scheffler, Eds., ASTM International, West Conshohocken, PA, and Journal of ASTM International, Vol. 4, No. 6, Paper ID JAI101102, B.T. Lammert and K.R. Hoigard, October 2007.

