



WILLIAM J. MACICAK, S.E., P.E.

Senior Project Engineer



+CONTACT

Raths, Raths & Johnson, Inc.
500 Joliet Road, Suite 200
Willowbrook, IL 60527
Mobile 815.546.7566
Phone 630.325.6160
Email wjmacicak@rrj.com

Joseph Macicak is a licensed Professional and Structural Engineer specializing in the investigation and analysis of structures, materials, and construction components. At RRJ for 16 years, he has applied his skills to field investigation, repair design, management and administration of repair programs, and forensic support services for dispute resolution and development of expert technical opinions. His background includes substantial knowledge and expertise evaluating stucco, wood framing and concrete distress, and the collection and assessment of destructive and nondestructive test data.

He has managed complex on-site investigation programs of large-scale resorts, residential condominium towers, bridge and transportation-related projects, and an historic concrete stadium. His responsibilities have included the coordination and implementation of on-site testing programs, facade inspections, condition assessment of structural and nonstructural building components, and collection of forensic evidence to support expert technical evaluations.

He has performed numerous analyses to determine the adequacy and probable cause of structural and other building-related damages using a wide array of tools, including finite element modeling and statistical analysis.

Mr. Macicak has conducted research to interpret code requirements and industry standards related to design professional standard of care and construction professional duty to perform. From his research and field investigation knowledge, he has provided litigation support to assist clients in construction- and design-related issues.

■ EDUCATION

Bachelor of Science in Civil Engineering, 2001
Specialization in Structures
Illinois Institute of Technology

■ REGISTRATIONS

Licensed Structural Engineer in Illinois
Licensed Professional Engineer in Illinois
Construction Documents Technologist (CDT)
Registered Safety Assessment Program Evaluator,
Disaster Service Worker
California Emergency Management Agency

■ PROFESSIONAL AFFILIATIONS

American Institute of Steel Construction (AISC)
ASTM International
Committee D07 on Wood
Subcommittee D07.02.03 Structural Composite
Lumber
Subcommittee D07.03.01 Structural Panels



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■ PUBLICATIONS | PRESENTATIONS

- "Communication and Concrete Slabs, Balancing Owner Expectations with Construction and Design Realities," G.R. Mulholland and W.J. Macicak, *The Construction Specifier*, August, 2017
- "What Could Possibly Go Wrong? Why Problems Arise on Construction Projects and Figuring Out Who's Responsible," W.J. Macicak and R.C. Haukoehl, Wisconsin Defense Council Spring Conference, Kohler, WI, April 21, 2016
- "Subgrade Waterproofing - Considerations for Specifiers," Construction Specifications Institute, Chicago Chapter Roundtable, Chicago, IL March 4, 2016
- "Retrofit Subgrade Waterproofing Options and Pitfalls," International Concrete Repair Institute, Fall Convention, W.J. Macicak and G.R. Mulholland, Fort Worth, TX, October 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. Kritzler, B.T. Lammert, W.J. Macicak, and O.C. Guedelhoefer, April 24, 2015
- "Case Study: The Critical Role of Sealants in the Repair of a Fluid-Applied Roofing Membrane," *Durability of Building and Construction Sealants and Adhesives: 5th Volume*, W.J. Macicak, O.C. Guedelhoefer, K.D. Magnuson, and D.M. VanDommelen, ASTM STP 1583, L. Carbary and A.T. Wolf, Eds., ASTM International, West Conshohocken, PA 2015
- "Failure to Communicate: Risks of Independently Retained Design Professionals," Proceedings of the 6th Congress on Forensic Engineering, R.C. Haukoehl, and W.J. Macicak, San Francisco, CA, November 2012
- "Benefits and Pitfalls of Tile Floor Construction Using Poured Concrete Underlayment," RRJ *Insight* Issue No. 25, February 2011