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Robert W. Kritzler

S.E.
Consultant

About Robert

Robert Kritzler has over 43 years of structural engineering experience in design, evaluation, repair, and failure investigation of buildings and bridges. His experience encompasses all major structural materials and systems, including steel, reinforced concrete, precast/prestressed concrete, post-tensioned concrete, masonry, and timber.

He provides expertise in structural analysis, on-site condition assessment and documentation, material evaluation, structural load testing, finite element and nonlinear analysis, strengthening design, and repair design drawings and specifications. He has performed structural peer reviews of significant projects and provided litigation support on structural-related issues.

Mr. Kritzler has developed and conducted full-scale load testing programs for bridges and has contributed to several papers on the subject and the evaluation and rating of elevated rail structures.

His project portfolio covers railroad and highway bridges; movable bridges; transit structures; industrial buildings and structures; parking garages; storage tanks and pressure vessels; stadiums; and all types of commercial, institutional, and residential facilities.

Education

Master of Science in Civil Engineering
Structures Program
Illinois Institute of Technology

Bachelor of Science in Civil Engineering
Bradley University

Licensure

Structural Engineer IL

Licensed Professional Engineer IN and CA

Professional Affiliations

American Institute of Steel Construction (AISC)
- Task Committee Meetings

American Railway Engineering and Maintenance-of-Way Association (AREMA)
- Committee 15-Steel Structures
- Materials Subcommittee, Past Chairman

American Society of Civil Engineers (ASCE)
- Award of Life Member Status

Structural Engineers Association of Illinois (SEAOI)

American Welding Society (AWS)

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Publications

"Tall Curtain Wall Systems and Large Seismic Drift," North American Steel Construction Conference-The Steel Conference, R.W. Kritzler and B.T. Lammert, Orlando, FL, April 13-15, 2016

"Using an Alternative Method of Analysis to Evaluate Punching Shear Capacity in Existing Post-Tensioned Shear Reinforced Concrete Floor Slabs," 2015 Structures Congress, Portland, OR, April 24, 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

"Implementation of Structural Redundancy in Bridge Design - A Probabilistic Approach," Proceedings of the ASCE Structures Congress XIV, Chicago, IL, R.W. Kritzler and J. Mohammadi, April 15-18, 1996

"Restoring the Michigan Avenue Bascule Bridge," Proceedings of the 12th International Bridge Conference, Pittsburgh, PA, R.W. Kritzler and O.C. Guedelhoefer, June 19 21, 1995

"Load Testing Chicago's Elevated Train System", RRJ Insight Issue No. 2, K.R. Hoigard and R.W. Kritzler, September 1994

"Structural Analysis of Stone Clad Precast Concrete Building Panels," Proceedings of the 34th U. S. Symposium on Rock Mechanics, Madison, WI, K.R. Hoigard, R.W. Kritzler, and G.R. Mulholland, June 1993

"Probabilistic Evaluation of Redundancy of Bridge Structures, Proceedings of the Sixth Specialty Conference on Probabilistic Mechanics and Structural and Geotechnical Reliability, Denver, CO, R.W. Kritzler and J. Mohammadi, July 8-10, 1992

"Lessons Learned from Diagnostic Load Testing of 100-Year-Old Elevated Mass Transit Structures," Transportation Research Record 1371, TRB, National Research Council, Washington, D.C., R.W. Kritzler, S. G. Pinjarkar, R.A. Rolsing, and P.O. McCarthy, 1992

"Evaluation and Load Testing of a 100-Year-Old Elevated Steel Transit Structure," Proceedings of the TRB Third Bridge Engineering Conference, Transportation Research Record 1290, Denver, CO, S.G. Pinjarkar, R.W. Kritzler, R.A. Rolsing, and P.O. McCarthy, March 10-13, 1991

"Factors for Improving Bridge Rating by Field Load Testing," Transportation Research Board 69th Annual Meeting, Washington, D.C., S.G. Pinjarkar and R.W. Kritzler, January 7-11, 1990

"Rating of Railroad Bridges by Field Load Testing," Proceedings of the 6th International Bridge Conference, Pittsburgh, PA, June 12-14, 1989