

**Rubin M. Zallen, P.E.**

## Publications & Lectures

“Torsional Resistance of Reinforced Concrete Beams,” master’s thesis, M.I.T. Department of Civil Engineering, June 1959.

Discussion of “Proposed Revision of Building Code Requirements for Reinforced Concrete (ACI 318-56),” *Journal of the American Concrete Institute*, Vol. 59, No. 9, Paper 59-7, December 1962.

“Control of Structural Work During Construction,” Massachusetts Construction Industry Board, Boston, MA, January 1975.

Lecturer, “Quality Control in Construction.” Lectures and panel discussion, meeting of the Structural Group, Boston Society of Civil Engineers Section of ASCE, February, 1976.

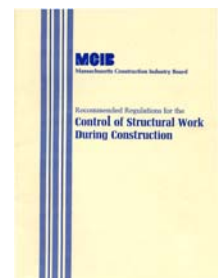
“Builders Licensing - Recommendations of the Massachusetts Construction Industry Board to the State Building Code Commission,” meeting of the Worcester County Chapter of the Construction Specifications Institute, Shrewsbury, MA, September 1976.

“Quality Control of Concrete Construction, Licensing of Construction Supervisors, and Their Effects on the Cost of Concrete Construction,” meeting of the New England Chapter of the American Concrete Institute, Auburn, MA, December 1976.

“Collapse of 16 Story Reinforced Concrete Building in Boston and Control of Concrete Construction,” meeting of the National Capital Chapter of the American Concrete Institute, Gaithersburg, MD, May 1980.

“Proposed Live Load Reduction for the Massachusetts State Building Code,” meeting of the Structural Group, Boston Society of Civil Engineers Section of the American Society of Civil Engineers, May 12, 1987.

“Quality of Civil Engineering Practice,” by Narbey Khachaturian and Rubin M. Zallen, proceedings of *Civil Engineering in the 21st Century*, workshop of the American Society of Civil Engineers, Williamsburg, VA November 1987.



Panelist, "Reform of Building Regulatory Process," workshop of the Associated General Contractors of Massachusetts at *Build Boston*, Boston Society of Architects, World Trade Center, Boston, MA, November 18, 1987.

"Boston System of Review of Structural Designs by Independent Second Engineer," *Workshop on Peer Review, Structural Failures II*, Engineering Foundation Conference, Palm Coast, FL, December 1987.

Moderator, "Will Project Peer Review Reduce Failures," *Symposium on Peer Review of Projects*, Convention of the American Society of Civil Engineers, Nashville, TN, May 1988.

"Roof Collapse Under Snow Drift Loading and Snowdrift Design Criteria," *Journal of Performance of Constructed Facilities*, American Society of Civil Engineers, Vol. 2, No. 2, May 1988.

"Roof Failures Due To Snowdrift Loading," *Symposium on Lessons Learned from Failures*; Convention of the American Society of Civil Engineers, New Orleans, LA, October 1989.

"Proposal for Structural Design Peer Review," *Journal of Performance of Constructed Facilities*, American Society of Civil Engineers, Vol. 4, No. 4, November, 1990.

Speaker, "Proposed Structural Requirements for Existing Buildings," Presentation by Loads and Seismic Advisory Committees of the Massachusetts Board of Building Regulations and Standards, meeting of the Structural Group, Boston Society of Civil Engineers Section of the American Society of Civil Engineers, May 19, 1992.

"Activities in Forensic Engineering," 1992 Materials Engineering Conference; Session on *New Developments in Use of Concrete and Masonry in Structures*, American Society of Civil Engineers, Atlanta Georgia, August 1992.

"Code Aspects of Building Rehabilitation," *Symposium on Avoiding Potential Failures*; Convention of the American Society of Civil Engineers, New York City, September 1992.

"Means and Methods of Construction," Symposium: *Hyatt Regency Walkway Failure, Progress in The Construction Industry Over the Last Decade*, Convention of the American Society of Civil Engineers, Dallas, Texas, October 1993.

"Underlying Assumptions in Current Seismic Codes," *Build Boston Symposium on Engineering Boston*, Boston Society of Architects, World Trade Center, Boston, MA, November 15, 1994.

"Case Histories of Collapses," proceedings of Lecture Series: *Forensic Structural Engineering*, Structural Group, Boston Society of Civil Engineers Section of the American Society of Civil Engineers, October 1997.

"Seismic Design by Code Is Not Always Sufficient Due to Inadequate Requirements for Ductility," proceedings of Lecture Series: *Forensic Structural Engineering*, Structural Group, Boston Society of Civil Engineers Section of the American Society of Civil Engineers, October 1997.

"Lift Slab Construction, Roles and Responsibilities," *Forensic Engineering*, proceedings of the First Forensic Engineering Congress, American Society of Civil Engineers, Minneapolis, MN, October 1997.

Moderator, "Hired Guns Give a Black Eye to Our Profession; Can We Do Something About It?" panel discussion, First Forensic Engineering Congress, American Society of Civil Engineers, Minneapolis, MN, October 1997.

Moderator, "Ten Years After the L'Ambiance Plaza Collapse," panel discussion, First Forensic Engineering Congress, American Society of Civil Engineers, Minneapolis, MN, October 1997.

"Structural Tests and Inspections Required by the Massachusetts State Building Code" and "Case Histories of Structural Failures," meeting of the New England Building Code Association, Haverhill, MA, April, 1998.

"Changing the Paradigm: Comprehensive Structural Inspections," by Emile W. J. Troup and Rubin M. Zallen, proceedings of the 31st Annual Conference of the National Conference of States on Building Codes and Standards, Dana Point, CA, November 1998.

Principal author, "Guidelines for Structural Tests and Inspections," Richard R. Crosswell and Rubin M. Zallen, Editors, Boston Association of Structural Engineers, Boston, MA, January 1999. (Available free on the web at <http://www.b-ase.org/17guidelines.pdf>).

"Case Histories of Failures and Their Causes," *Seminar: Lessons Learned in Forensic Engineering*, Los Angeles Section, American Society of Civil Engineers, Irvine, CA, May 1999.

"Collapse of Trunk Storm Sewer in Boston," *Forensic Engineering*, proceedings of the 2nd Forensic Engineering Congress, American Society of Civil Engineers, San Juan, PR, May, 2000.

Moderator, "Open Forum on Construction Failures," 2nd Forensic Engineering Congress, American Society of Civil Engineers, San Juan, PR, May, 2000.

Principal Author, "Chapter 40, Quality Assurance During Construction," a proposal by the Boston Association of Structural Engineers to the National Fire Protection Association for NFPA 5000, Building Code, September 2001. (This proposal formed the basis of Chapter 40 for the 1st Edition of NFPA 5000).

"Effective Length of Lift-Slab Columns," by Rubin M. Zallen and Bernard Grossfield, *Journal of Performance of Constructed Facilities*, American Society of Civil Engineers, Volume 16, No. 4, November 2002.

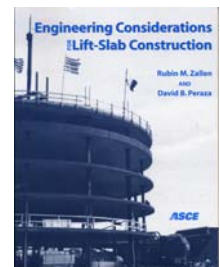
"Problems with Industry Standard for Erecting Open Web Steel Joists," *Forensic Engineering*, Proceedings of the Third Congress, American Society of Civil Engineers, San Diego, CA, October 2003.

Principal Author, "Engineering Considerations for Lift-Slab Construction," by Rubin M. Zallen and David B. Peraza, American Society of Civil Engineers, Reston, VA, 2004. (For abstract or purchase, go to: <http://www.asce.org/Product.aspx?ID=2147485902>).

Moderator of Panel Discussion: "Pitfalls of Reports," 4th Forensic Engineering Congress, Cleveland State University, Cleveland, OH, October 8, 2006.

"Structural Provisions for New Buildings for the 7th Edition of the Massachusetts State Building Code." Presentation to the Structural Engineers Association of Massachusetts, Boston, MA, September 21, 2006.

"Structural Requirements for Existing Buildings for the 7th Edition of the Massachusetts State Building Code." Presentation to the Structural Engineers Association of Massachusetts, Boston, MA, September 21, 2006.



"Structural Requirements for Alterations, Repairs, Additions & Changes of Use for Existing Buildings." Presentation at *Build Boston*, Boston Society of Architects, Boston, MA, November 16, 2006.

"Massachusetts State Building Code, 7th Edition, Section 3408: Structural Requirements for Alterations, Repairs, Additions & Changes of Use for Existing Buildings." Presentation to the Structural Engineers Association of Massachusetts, Weston, MA, April 25, 2007.

"Practical Examples of the Structural Requirements for Changes of Use and Alterations Required by Section 3408 of the 7th Edition of the Massachusetts State Building Code." Presentation at *Build Boston*, Boston Society of Architects, Boston, MA, November 15, 2007.

"Introducing the 7th Edition of the Massachusetts State Building Code - Structural Provisions." Presentation at *Build Boston*, Boston Society of Architects, Boston, MA, November 19, 2008.

"Chapter 17, Quality Assurance During Construction & Chapter 34, Existing Buildings, 7th Edition of the Massachusetts State Building Code." Presentation to the Boston Association of Structural Engineers, January 21, 2009.

"Structural Provisions of the 7th Edition of the Massachusetts State Building Code." Presentation to the Structural Group of the Boston Society of Civil Engineers Section of ASCE, January 28, 2009.

"Application of the Structural Requirements of Chapter 34 of the 7th Edition of the Massachusetts State Building Code." Moderator of panel and speaker. Workshop at *Build Boston*, Boston Society of Architects, Boston, MA, November 20, 2009.

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