

Richard L. Tomasetti, P.E.

Co-Chairman

Education

- ▶ Post Graduate Studies, Mathematics, University of Connecticut
- ▶ Post Graduate Studies, Ph.D. Program in Structural Mechanics, Polytechnic Institute
- ▶ M.S., Civil Engineering, 1965, New York University
- ▶ B.S., Civil Engineering, 1963, Manhattan College

Registrations

- ▶ Registered Professional Engineer in New York, New Jersey, Connecticut, Massachusetts, Pennsylvania and Illinois

Professional Activities

- ▶ Advisory Board Member at Manhattan College, Columbia University and New York University
- ▶ Director and Vice Chairman, New York Building Congress
- ▶ ACI Committees on Design Responsibility & Guideways
- ▶ Chairman ASCE Committees on Tall Buildings & Light Gauge Hypars
- ▶ A.I.S.I. Advisory Board and ASCE Committee for Cold-Formed Steel Members
- ▶ Chi Epsilon, Civil Engineering Honor Fraternity
- ▶ Vice President, Board of Directors, New York Association of Consulting Engineers (NYACE)
- ▶ Concrete Industry Board (CIB) Editorial Advisor
- ▶ Member NYC Seismic Code Advisory Board
- ▶ Member NYS Code Advisory Board
- ▶ National Academy of Sciences Committee on U.S./U.S.S.R. Technology/Building Systems

Mr. Tomasetti is Co-Chairman of The Thornton-Tomasetti Group, Inc., and has overall executive responsibility for the firm and its policies. He has extensive experience in the structural design of numerous and award-winning major commercial, industrial, residential, transportation and special structure projects utilizing a variety of building systems and materials.

He is a recognized investigator of structures in distress, materials applications and has been a consultant to major U.S. Corporations on applications of new construction products. Mr. Tomasetti and his firm also specialize in protective design of structures and disaster mitigation.

Representative Project Experience

- **World Trade Center Disaster Site**, New York, New York. Direction of engineering efforts for the New York City Department of Design and Construction for all search, rescue, demolition and existing building damage assessments and stabilization at the disaster site.
- **5 Times Square**, New York, New York. This 1 million SF office building is 38-stories high. The two basement levels are adjacent to the NYC subway on two sides. There are two subway entrances which enter into the building, one on the 41st Street side and one on the 42nd Street side.
- **Times Square Tower**, New York, New York. This 1.3-million SF, 50-story office building--the tallest in Times Square--sits above the subway station and is designed to accommodate the three subway lines which run adjacent to the property.
- **Terminal One at JFK International Airport**, Jamaica, New York. The \$435-million terminal houses five international carriers. Its innovative structural design sets a new standard for airport terminal structural design for the new millenium.
- **Conrad Hilton Hotel and Office Building Complex**, Jakarta, Indonesia. This project consists of three million SF in one 42-story hotel and two 40-story office buildings with two levels of underground retail space and three-levels of underground parking for 2,000 cars.
- **Shanghai Plaza 66**, Pu Xi, Shanghai, China. This mixed-use project includes the tallest concrete building in China and consists of one 66-story, 285-meter office tower, one 48-story office tower, a five-story retail podium with atrium above grade and three floors of below-grade parking.
- **World Financial Center**, New York, New York. The project consisted of four million SF office building complex (40 and 50 stories high, for Olympia & York.) with columns, foundations and building supports

Teaching

- ▶ Guest Lecturer at Cornell University, Manhattan College, Cooper Union, Pratt University, Columbia University, Louisiana State University, New York University and MIT
- ▶ Master of Engineering Program Project Advisor, Cornell University, 1984, 1981
- ▶ Faculty Member, University of Wisconsin, AISC/ASEIPF Graduate School on Office Building Design.

Awards

- ▶ **Industry Honoree**, NY Building Congress, 2003
- ▶ **Engineer of the Year**, New York Association of Consulting Engineers, 2002
- ▶ **Honorary Doctor of Science**, Manhattan College, 2001
- ▶ **Salvadori Center Founder's Award**, for design excellence, 2001
- ▶ **Leader of Industry Award** Concrete Industry Board, 1999
- ▶ **Certificate of Honor**, Structural Engineers Association of Illinois, 1999
- ▶ **The 1996 LIFE Industry Leadership Award**
- ▶ **Manhattan College 1991 Chi Epsilon Honor Member**
- ▶ **The Gold Awards**, James F. Lincoln Arc Welding Foundation, Copley Place, Boston, 1986, One Mellon Bank Center, Pittsburgh, 1983
- ▶ **The Best Structure Award**, Structural Engineers Association of Illinois, for The Chicago Board of Trade Addition, (1985)
- ▶ **Engineering News-Record "Those Who Made Marks"**, for stressed-skin tube for One Mellon Bank Center Tower, Pittsburgh, 1982

located directly over the port authority of New York and New Jersey trans-Hudson (PATH) tube system.

- **Tampa City Center**, Tampa, Florida. This project for GTE encompasses four city blocks, including two 40-story office buildings and a 500-room Hyatt Regency Hotel.
- **Evergreen Center**, Cairo, Egypt. Construction of a new office building.
- **One Mellon Bank Center**, Pittsburgh, Pennsylvania. Developed a new stress-skin tube structure for this 54-story, 1.7-million SF office building for United States Steel Realty Corporation.
- **American Airlines Superbay Hangars**, San Francisco and Los Angeles, California. Performed structural evaluation of a 450,000 SF clear span facility measuring 450-ft. x 550-ft. in plan, containing two 235-ft. clear span cantilevers. Each building can hold four 747's.
- **Roosevelt Island Aerial Tramway**, New York, New York. The project for NYS Urban Development Corp. included design, contract documents and construction project management for the tramway and stations.
- **Chicago Board of Trade Headquarters Office Building**, Chicago, Illinois. The 23-story addition to the Chicago Board of Trade Headquarters Office Building includes a major clear span trading floor with suspended floors above.
- **General Dynamics Frame and Cylinder Facility**, Quonset Point, Rhode Island. Facility for the construction of Trident submarine hulls. Covering 6.5 acres, the building included three 200-foot by 600-foot clear spans.
- **Journal Square Transportation Center**, Jersey City, New Jersey. Investigated the collapse of a suspended cement plaster ceiling for the Port Authority of New York and New Jersey.

Professional Papers, Lectures and Publications

Professional Papers and Articles

- "Concrete Delivers," Civil Engineering Magazine, August 2001, co-author.
- "The Tallest Concrete Building in Shanghai, China—Plaza 66," co-author, Sixth World Congress of the Council on Tall Buildings and Urban Habitat, Melbourne, Australia, 2001.
- "The New Terminal One Uplifts New York City's John F. Kennedy Airport," Modern Steel Construction, contributing author, 1999.
- "Terminal One at John F. Kennedy International in New York City; A New Spatial Terminal Approach," International Association of Shell

Structures (IASS), contributing author, 1997.

- “Structural Systems for Tall Buildings,” Tall Buildings and Urban Environment Series, published by Mc-Graw Hill, Inc., contributing author, 1995.
- “Long-Span Steel Covered Arenas,” presented to Australian Institute of Steel Construction, Sydney, September 26, 1994.
- “Concrete, Tall and Deep,” presented to the Concrete Institute of Australia, Victoria Branch, Melbourne, September 27, 1994.
- “The World's Tallest Building - The Miglin-Beitler Tower Chicago, IL,” presented at the November 1990 World's Tallest Building Congress in Hong Kong, co-author.
- “Preventing Construction Failures Through Effective Relationships,” Chapter 4, Construction Failures, John Wiley & Sons, 1989.
- “Composite Design of High Rise Buildings,” presented at the Knickerbocker Chapter of Concrete Reinforcing Steel Institute, April 22, 1987.
- “Battery Park City Centerpiece Uses Steel Extensively,” published in a Special supplement of New York Construction News, October 27, 1986.
- “The Dynamics of Concrete,” presented at the annual convention of the Concrete Reinforcing Steel Institute (CRSI), Montauk, NY, October 9, 1986.
- “Tall Buildings - Load Effects and Considerations,” published in Building Structural Design Handbook, John Wiley & Sons, 1986, co-author.
- “Development of Thin Wall Cladding to Reduce Drift on Hi-rise Buildings,” presented at “Thin-Walled Metal Structures in Buildings” Colloquium, sponsored by the International Association for Bridge and Structural Engineering, Stockholm, Sweden, June 9-12, 1986, co-author.
- “Interaction Between Computer and Structure,” presented at the Third International Conference on Tall Buildings, Chicago, IL, January 6-10, 1986.
- “The Evaluation of Structural Concepts for Buildings,” presented at the Boston Society of Civil Engineers Section of ASCE lecture series, December 3, 1985, co-author.
- “Preliminary Design of High-Rise Buildings,” presented at the Preliminary Structural Design Techniques Program sponsored by the Department of Engineering, Professional Development, the University of Wisconsin-Madison, November 13-14, 1985.

- “Research Needs For Multi-Story Buildings,” presented at ASCE Structural Engineering Congress 1985, Chicago, IL, September, 1985.
- “One Mellon Bank Center: Skin is More than Beauty Deep!” published in Modern Steel Construction, Third Quarter, 1984.
- “Stressed Skin Efficiently Resists Lateral Loads” published in Building Design and Construction, November 1982.
- “Procedures for Quality Control of Concrete,” Local ACI Chapter Lecture, Worcester, MA, 1980.
- “Finite Element Analysis of Caisson-Structure and Soil-Structure Interaction,” 1980, paper presented at ASCE Portland Convention, Co-author.
- “Finite Element Idealization of a 'Tridilosa' Concrete Space Frame Roof Structure,” 1979, paper submitted to ASCE Structural Division Specialty Conference, Co-author.
- “Engineering the First Mass Transit Tramway,” 1975, Civil Engineering Magazine.
- “Computerized Structural Analysis of World's Largest Light Gage Steel Primary Structural System,” 1973, Journal of Computers and Structures, Co-author.
- “Materials Applications for Rapid Transit Systems,” 1973, Materials Engineering Congress.

Lectures

- “The Engineering Lessons of 9/11,” New York University Dean’s Lecture Series, September, 2002.
- “The Engineering Lessons of 9/11,” The Municipal Engineers of the City of New York, Wimmer Memorial Lecture, September, 2002.
- “Engineering Business,” guest lecturer at Cooper Union University, New York, Louisiana State University and Louisiana Tech, September 2000.
- “Current Evolution of Tall Building Structures,” keynote lecture and paper, Australian Structural Engineering Conference, Sydney, September 22, 1994 and Auckland, September 29, 1994.
- “Unique Steel Design at Battery Park,” talk given at 14th Annual New York City Structural Seminar sponsored by AISC NY City Area Companies of Steel Construction, June 21, 1985.
- “Long-Span Structures,” 1978, Lecture, Structural Engineers Association of California, Los Angeles and San Diego.

- “Connection Design,” 1977, Instructor, University of Pittsburgh, Short Course on Lightweight Design.
- “Space Structures,” 1977, Lecture, Boston Society of Civil Engineers, ASCE, M.I.T. Structural Group Meeting.
- “Structural Design of New York Aerial Tramway,” 1976, Lecture, Student Chapter, ASCE, Manhattan College.
- “Building Structural Design,” 1976, Guest Lecturer, Structural Design Course, Cornell University.
- “Material Needs in Building - An Overview,” 1973, Lecture, Gordon Research Conference.
- “Low-Cost Guideways and Structures,” 1973, Lecture, Sixth Annual Highway Research Board Summer Meeting, Highway Research Council, Virginia.

Publications

- Exposed Structure in Building Design, published by McGraw-Hill, Inc., 1993, co-author.
- Building Construction Chapter, Funk & Wagnalls, New Encyclopedia, 1993.
- “Shop Drawing Responsibilities,” Co-author, Chapter 16, ASCE Manual of Professional Practice.
- O'Hare's United Airlines Terminal: Exposed Steel Structure gives Form to Terminal for Tomorrow,” Published by the International Iron and Steel Institute, Rue Colonel Bourg 120, B-1141 Brussels, Belgium, 1988, co-author.
- “Structural Design,” Encyclopedia of Science & Technology 6th Edition, 1986, co-author.
- “Observations on Architect/Engineer's Liability,” 1985 Legal Handbook for Architects, Engineers and Contractors, published by Clark Boardman Company, Ltd.
- “Buildings,” 1984 McGraw Hill Yearbook of Science Technology.