

**NEIL P. WEXLER, PHD, PE**

## **SUMMARY**

Dr. Wexler is an established structural engineer with over 38 years of professional experience, which covered the New York tri-state area. Over the years Mr. Wexler has conducted forensic examinations for building owners, attorneys, insurance carriers and others to assist with the determination of cause of accidents and damage to buildings, along with deficiencies in relation to consumer products. Mr. Wexler has provided clients with analysis and design, condition assessment, damage investigations, failure analysis, construction consulting & management, depositions and courtroom appearances.

Dr. Wexler's forensic engineering examinations covers a wide array of specialties, including but not limited to the following areas:

- Civil/Structural Engineering and Construction Forensics - Expert Consulting, Witness; Insurance Claims (Analysis/Preparation); Peer Reviews.
- Condition/Vulnerability/Damage Assessment & Failure Analysis - Buildings, Towers & Chimneys, Cranes, Earth-Retaining Structures, Foundations, Slabs & Pavements; Instrumentation & Monitoring.
- Construction/Installation Defects/Accidents - Effect of Demolition, Pile Driving, and Trenching on Existing Facilities; Cracking and Settlement Damage; Water Intrusion; Contract Disputes.
- Code Compliance; Errors and Omissions; Standards of Care.
- Building & Support-Structure Analysis/Design/Construction - Residential, Commercial and Industrial, Blast & Fire-Resistant Installations, Equipment/Piping Support Structures, Fall Protection Systems, Vibration/Earthquake Hazard Evaluation & Retrofit Design; Steel, Concrete, Wood, Brick, and Masonry.

Dr. Wexler's design experience through the years has also included the following areas:

- Design of high-rise buildings.
- BIM- Building Information Modeling.
- Seismic and wind design of buildings and structures.
- Matrix analysis and structural dynamics including shock analysis, impact loading and vibrations.
- Limitation of states in steel.
- Plastic analysis and design in steel and concrete.
- Prestressing and posttensioning (including design of prestressed and posttensioned high-rise buildings).
- Design of masonry structures.
- Value Engineering- Cost optimization.
- Development of criteria for approval by NYC Transit authority for buildings to be placed on top of NYC subway tunnels and stations.

## **EDUCATION**

Doctor of Philosophy in Civil Engineering – NYU Polytechnic

Master's in Civil Engineering – The City University of New York

Bachelor's in Engineering – McGill University

## **REGISTRATIONS & CERTIFICATIONS**

Registered Professional Engineer:

- Connecticut # PEN.0013105
- Florida # 83118
- Maryland # 19083
- North Carolina # 049208
- New Jersey # 24GE02973400
- New York # 060005

- Pennsylvania # PE056526E
- Texas # 132161

## **PROFESSIONAL ASSOCIATIONS**

National Association of Professional Engineers (NAPE)  
National Association of Forensic Engineers (NAFE)  
Structural Engineers Applied Research Council (Founder & Member of Steering Committee)  
American Society of Civil Engineers (ASCE)  
Member of the PCI -Precast Concrete Institute (PCI)  
Member of the AISC- American Institute of Steel Construction  
American Concrete Institute (ACI)  
Member the Masonry Society  
Member of Structural Engineer Association of New York- SEAoNY  
Member Tall Building Council  
Former Executive Committee Member ASCE, Structural Division, NY Chapter  
Former ASCE Technical Committee Member in Methods of Analysis  
Former Zoning Board of Appeals Member, City of Rye, NY (2001-2008)

## **CAREER HISTORY**

### **FORCON International – Structural Engineer**

Providing forensic investigations and expert witness services as it relates to his field of expertise.

### **Wexler Associates – President and Chief Structural Engineer**

Consulting Structural Engineering Firm.

## **SPEAKING ENGAGEMENTS**

- SEI- Steel Day 2014, Staggered Trusses System highlighting our project Summer House, CT
- AISC Steel Design Conference 2013
- IENGA Annual Convention 2016
- 2017 NASCC – The Steel Conference
- SEAoA 51st Anniversary Convention and Conference
- 26th Annual CEGSS Conference – McGill University

## **PUBLICATIONS**

- Refined Cracked Properties and Flexural Stiffness for High Rise Concrete Shear Walls Subject to Service Load, 2018 (Concrete International, 2020)
- RETHINKING Multifamily Residential (Modern Steel Magazine 2016)
- Staggered Truss Framing (Connections, 2014)
- Loew's Pitkin Theatre (Cinema Treasures, 2011)
- New Life and Uses for a Movie Palace in Brooklyn (The New York Times, 2010)
- Living in America: The Jewish Experience, The Loew's Pitkin (The Museum of Family History, 2007)
- Tunnel Vision (Modern Steel Construction, 2007)
- AISC Design Guide No. 14- Staggered Trusses, 2003
- The Powerhouse-BIM to the Future (Modern Steel Construction, 2003)
- Staggered Truss Solution (Modern Steel Construction, 2003)
- Wexler Sets His Sites Small with Big Engineering Feasts (Real Estate Weekly, 2002)
- Steel Construction & Team Effort (Modern Steel Construction, 2001)
- Healthcare Facilities Stay in the Pink with Precast (Ascent, 2000)
- Composite Girders with Precast Concrete Plank-New Plancom Framing System Reduces Costs-(New York Construction News, 1994).

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- Innovative Design Cuts Cost (Modern Steel Construction, 1993)
- Restraint Girder System-A New Approach-SINY, AISC, 1992.
- Precast Concrete Plank-Common Choice for Mid-and Low-Rise Apartment Buildings-New York Construction News, 1992.
- New Developments in Structural Steel for Buildings-AISC, SINY, AIRA. 1992.
- Improved Properties-RGS-Construction Specifier, Sept. 1992.
- Preliminary Methods of Building Design-Lateral Load Analysis of Tall Buildings. ASCE, New York, NY 1984.
- System Methodology in the Structural Design of Tall Buildings (ASCE, 1983).
- Precast Concrete Structures Under Seismic Loadings (McGill University, 79).

## **HIGHLIGHTED PROJECTS BY TYPES:**

### ***Forensic and Design Work***

Rebuild Resilient Staten Island (RRSI) – Conduct forensic inspection of existing conditions, preparation of structural design for prototypes and assist with construction administration of 45 homes damaged by Hurricane Sandy.

130 Beach 134 Street Belle Harbor, NY – Single family residence completely damaged by Hurricane Sandy. The cause of damage is a combination of flood waters and wind damage. Document existing conditions and prepared formal engineering report for client.

338 Bloomfield Avenue Vernona, NJ – Conducted forensic inspection of residential building to determine cause for interior water damage caused by Hurricane Sandy. Prepared formal engineering report for client.

155 3rd Street Brooklyn, NY – Conducted forensic inspection of commercial building to determine damages caused by rising and receding waters due to Hurricane Sandy. Prepared formal engineering report for client.

Newark Health & Extended Care Facility – Conduct forensic investigation and structural analysis of the existing structure to determine the extent of damage and distressed caused by the 2011 earthquake. Specifically, what caused vertical brick cracks at various location throughout the building. Prepared formal engineering report with calculations for client.

Ardsley Country Club, Rye, New York – Conducted forensic investigation to determine the extent of structural damage caused by a fire and to provide a general scope of repairs related. Prepare formal engineering report, structural plans to remediate damages and assistance with claim. Also, prepared drawings for structural stability, water and mold damage, and structural rehabilitation.

134 Sunset Drive, Sayville, NY – Conducted forensic inspection of residential building to determine cause for interior water damage. Prepared formal engineering report for client.

108 North 7th Street, Brooklyn, NY – Conducted forensic inspection of commercial building to determine the source of mold. Prepared formal engineering report for client and issued remedial recommendations.

17 Center Street Highland Falls, NY – Conducted forensic inspection of sinkhole creating questionable safety conditions in the driveway and adjacent building. Prepare formal engineering report for client.

655 Avenue of the Americas, New York, NY – Conducted forensic inspection of residential tenancy to determine the cause of structural damaged sustained to residence due to construction below. Prepared formal engineering report, temporary shoring and bracing plans for client.

127 East 81st Street, New York, NY – Reviewed access agreements, construction documents, and provided recommendations for improvements including those required to reduce physical damage, noise, dust, vibrations, access to a three story residential building. Reviewed repairs and remedial work after damage occurred.

Hewitt school vs 38-40 East 76th Street: Conducted forensic inspection of townhouse to determine the extent of damage that may have been caused by excavation and construction activity on the adjoining property (school

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extension). Reviewed construction documents, scheduling, and vibration monitors reports, approved property protection plans and prepared formal engineering report for client.

36-38 Main Street Yonkers, NY: Conducted structural analysis and forensic investigation of existing mural and determined the cause and origin of distress and address redevelopment possibilities, considering the existing in place exterior mural protected by City of Yonkers Landmark and preservation committee. Prepared formal engineering report and assist as expert witness.

520 Broadway New York, NY (Michael Kors Flagship Store) – Retained as a third party engineer to review construction documents and conduct onsite quality control of column removals and “building jacking” of the existing 12 story commercial building while occupied with tenants.

New York Korea Center (122 East 32nd Street NY, NY) – Conducted forensic inspection of an existing 18 Story residential building to determine the extent of damage that may have been caused by deep excavation and construction activity on the adjoining property.

Reviewed construction documents, scheduling, and vibration monitors reports, approved property protection plans and prepared formal engineering report for client.

## ***Premises Liability and Construction Site Accidents***

Kum Gang Korean Restaurant Flushing, NY: Conducted forensic investigation of an illegal interior stair and any potential violations with NYCBC design. Prepared formal engineering report and provide deposition.

Woodbridge Crossing, Woodbridge, NJ (Parking Structure) - Conducted forensic inspection of a two story precast plank concrete parking structure to determine cause for a portion of the garage to collapse. Prepared formal engineering report for client, structural remediation plans, performed compliance check, and expert witness.

1642 Park Avenue New York, NY: Conduct visual observation of structural damage caused by gas explosion. Prepared formal engineering report for client then prepared repairs and expert witness.

25 Grove Street New York, NY: Conducted forensic investigation and determined the cause of excessive dust due to illegal construction within the residential building. Prepared formal engineering report for client, structural remediation plans, and performed compliance check.

Nations Best (Hunts Point Market) 355 Food Center Drive Bronx, NY: Conducted structural assessment of the existing building after reported structural damage caused by a collision between a commercial delivery truck and loading dock, knocking bricks and fatally striking a worker. Prepared formal engineering report for client and expert witness.

## ***Neighbor Protection and Construction Assessments***

172 Madison Street Brooklyn, NY: Conducted forensic and visual investigation of existing 4-story residential building in response to a vacate order and violation issued for adjacent property. Construction at 174 Madison Street compromised the structural stability and integrity of 172 Madison Street. Provide remedial stabilization procedure and prepared formal engineering report for client and drawings

140 West 28th Street New York, NY: Conducted forensic and visual investigation of construction in response to neighbor’s claim at 146 West 28th Street, Apartments #2E and #4W. Provide remedial stabilization procedure and conducted forensic and visual investigation of existing construction and existing 7-story mixed-used building.

136-140 West 109th Street New York, NY: Conducted forensic investigation of 3 existing 5-story residential buildings for property protection from new adjacent construction being taken place at 145-149 West 108th Street. Prepared formal engineering report for client.

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50 Wallabout Street Brooklyn, NY: Conducted forensic investigation on existing 3-story Storage-Mart facility for property protection from new adjacent construction being taken place at 347 Flushing Avenue. Prepared formal engineering report for client.

25-30 Broadway Long Island City, NY: Conducted forensic and visual investigation on existing 3-story mixed used building for property protection from new adjacent construction at 25-28 Broadway. New adjacent construction affecting existing structure, causing damages throughout the building. Provide remedial stabilization procedure and prepared formal engineering report for client then prepared repairs.

302 West 122nd Street New York, NY: Conducted forensic and visual investigation on an existing 5-story condominium building for property protection from new adjacent construction at 300 West 122nd Street. Prepared formal engineering report for client and provide structural remedies.

## ***Product Liability***

24 Richie Court North Saint James, NY 11780: Reviewed documents provided by Plaintiff's counsel to determine the cause for the reported in ground pool wall damaged by liner. Prepared formal engineering report for client.

17 Birchwood Drive Port Jefferson Station, NY 11776: Review documents received by insurance company to determine the cause for the reported glass aquarium in homeowner's residence, damaging first floor and cellar. Prepared formal engineering report for client.