

James William Feuerborn, Jr., P.E.

Associate, LZA Technology Division

Education

- ▶ Master of Science, Engineering Mechanics, Columbia School of Engineering and Applied Science, 1994
- ▶ Bachelor of Science, Civil Engineering, Columbia School of Engineering and Applied Science, 1993
- ▶ Bachelor of Arts, Humanities, Columbia College, New York, 1993

Registrations

- ▶ Registered Professional Engineer in New York

Teaching

- ▶ Graduate Teaching Assistant, Columbia University, 1993-1994

Professional Activities

- ▶ Member, American Institute of Steel Construction (AISC)
- ▶ Member, Structural Engineers Association of New York (SEAoNY)
- ▶ Past Member, American Society of Civil Engineers (ASCE)
- ▶ Past Member, Society of American Military Engineers (SAME)

Awards

- ▶ 'Outstanding Civil Engineering Achievement Award (OCEA), Special Disaster Recovery Award', from the American Society of Civil Engineers for the World Trade Center Disaster Site Recovery Project; 2003.
- ▶ 'National Recognition Award' from the American Council of Engineering Companies Engineering Excellence Award Competition for the World Trade Center Disaster Response Project; March 2003.

Mr. Feuerborn has experience in the structural analysis, design and review of a variety of building types, including commercial, banking and telecommunications buildings, in both steel and concrete. His responsibilities include development of plans, details and sections of contract drawings from conception to completion and review of contractor's submittals for compliance to technical specifications. He manages other design team members and supervises the work of engineers and draft persons. He conducts structural field surveys of existing buildings and quantity take-offs utilizing existing and proposed plans.

Emergency Response and Damage Assessment Projects

- **World Trade Center Disaster Response**, New York, New York. Provided structural engineering services related to the site search and rescue, immediate damage assessment of buildings in the collapse area, assistance with demolition and temporary stabilization procedures, design of grillages and analysis of existing structures to support construction equipment, coordination of the survey monitoring of existing damaged structures, and inspection of hundreds of buildings in the area surrounding the collapse site, with staff members on-site 24 hours a day, seven days a week.
- **Tropicana Garage Collapse**, Atlantic City, New Jersey. Provided emergency response and forensic engineering services, structural peer review, and continuous on-site presence following a collapse during construction that caused four fatalities.
- **Amtrak Sunnyside Yards**, Queens, New York. Emergency response and stabilization for the partial collapse of this pre-engineered metal building. Performed forensic investigation into the causes of the collapse.
- **Castle Village Collapse**, Washington Heights, New York. Emergency response, stabilization, and continuous on-site presence following a collapse of a retaining wall adjacent to the Henry Hudson Parkway.
- **2633 Broadway**, New York, New York. Emergency response and stabilization for the partial collapse of this building during demolition. Performed forensic investigation into the causes of the collapse.

Deconstruction Projects

- **130 Liberty Street (Deutsche Bank AG)**, New York, New York. Engineering services related to the planning, engineering, and building deconstruction of this 42-story office building damaged and contaminated on 09-11-01.



- ▶ 'Engineering Excellence Grand Award' from the American Council of Engineering Companies for the World Trade Center Disaster Response Project; March 2003.
- ▶ Certificate of Appreciation from the New York City Department of Design and Construction for structural engineering services during the World Trade Center rescue and recovery operations.
- ▶ 2002 Project of the Year Award from New York Construction News for the World Trade Center Recovery Project.
- ▶ 2002 Project of the Year Award from New York Construction News for the UBS Warburg Trading Floor Expansion Project.
- ▶ ASCE Younger Member Forum Award 1993

Alteration/Rehabilitation Projects, and Peer Reviews

- **Queens Midtown Tunnel**, Proposed Air-Rights Building Review, 245 East 36th Street, New York, New York. Identified structural and non-structural issues, including blast and hardening evaluation, associated with design and construction of a new 42-story mixed-use facility to be located off the Manhattan side exit plaza.
- **Review of UN Development at Block 1353**, UNDC First Avenue New York, New York. Providing a preliminary review of the proposed building's effects on nearby buildings and the tunnels (Queens Midtown and Subways) underneath.
- **NYS DOT Salt Dome Inspections & Repairs**, New York State Department of Transportation, New York. Provided inspection and evaluation for 146 salt domes including the design and detailing of repairs to the existing salt dome's wooden stressed-skin structure.
- **Rome City School District**, Rome, New York. Provided structural design peer review services for the evaluation of the existing roof structures on three elementary schools.
- **Rentschler Field**, University of Connecticut, East Hartford, Connecticut. Conducted peer review of the structural design of precast reinforced concrete Y-columns/rakers and a forensic investigation into the causes of cracks in these structural precast concrete Y-columns/rakers of this 40,000-seat stadium while under construction.
- **Comcast Stadium**, College Park, Maryland. Investigation to review the design and construction of the cast-in-place raker beams. Additionally, explored alternative repair approaches, which included the innovative and cost-effective use of carbon-fiber reinforced polymer.
- **Chelsea Piers Sports and Entertainment Complex – Pier 59**, New York, New York. Provided structural design review services for the evaluation of the existing steel roof trusses to sustain additional loads imposed by an exterior wooden roof deck.
- **411 East Wisconsin**, Milwaukee, Wisconsin. Reviewed capacity of existing precast hollow-core concrete floor planks and concrete girders to resist loads imposed by proposed new file cabinets, libraries, mechanical equipment, computer servers and high-density file systems.
- **Viacom**, New York, New York. Conducted complete condition survey and conceptual design for mitigation of vibration in stair and office framing at an office building.



- **275 Main Street, White Plains, New York.** Provided structural engineering services related to proposed alterations to portions of the building. These alterations consisted of the closure of existing waffle slab openings for elevators and escalators and the design of new waffle slab openings and structural reinforcement required for the installation of a cart hoist, new elevators and an escalator.
- **275 Main Street Parking Garage, White Plains, NY.** Conducted a due diligence structural condition assessment of a concrete parking structure and retail store. Evaluated the feasibility of potential structural alterations.
- **405 Lexington Avenue (Chrysler Building), New York.** Performed peer review for structural evaluation and rehabilitation of building.
- **608-620 Atlantic Avenue, Brooklyn, New York.** Structural due diligence survey and report on an existing seven building 4-story structure.
- **Atlantic Yards Demolition, Brooklyn, New York.** Structural due diligence surveys, reports and demolition drawings on numerous existing buildings.
- **353 Larkfield Road, East Northport, New York.** Reviewed capacity of the existing wood framed roof structure to resist loads imposed by new mechanical equipment including the design and detailing of reinforcement.
- **15 West 24th Street, New York, New York.** Reviewed capacity of existing 2nd floor steel structure to resist loads imposed by tenant alterations.

Design Projects

- **Computer Associates, Islandia, New York.** 400,000 SF expansion to the Long Island corporate headquarters of Computer Associates International, the world's leading provider of business software. The expansion will feature new office and R& D facilities, a state of the art technical training center, an international food court and an enlarged indoor/outdoor fitness center.
- **UBS A.G. Headquarters (Swiss Bank) Stamford, Connecticut.** This three-phase project consisted of three 15-story office towers and a 9-story trading facility with several levels of parking. The AISC 1999 Competition Engineering Award of Excellence National Winner in the "greater than \$10 million, less than \$25 million" project category.



- **Omaha Convention Center & Arena**, Omaha, Nebraska. The 430,000 SF arena includes seating for 14,000 and 36 luxury suites for hockey and other events. The convention center's main hall includes 24,000 SF of exhibition space, a ballroom holding 3,000 people, 30,000 SF of meeting rooms for breakout sessions and parking accommodating 4,760 cars.
- **330 Hudson Street**, New York, New York. Renovation of an existing eight-story warehouse building to a commercial building by the addition of 6 stories.
- **29-16 38th Avenue**, Long Island City, New York. Renovation of an existing two-story residential building including the addition of 1 story.

Litigation Support

- **Federal Building and United States Courthouse**, Islip, New York. Litigation and trial support, including the issuance of expert reports, with regard to the delays caused during construction of the 11-story, 227-foot, 735,000 SF courthouse.
- **Federal Building and United States Courthouse**, Islip, New York
2005 On-going
Deposition/ Trial
Attorney:
U.S General Services Administration Office of General Counsel
Thomas Y. Hawkins, Esq.
- **199-203 State Street**, Brooklyn, New York.
- **Westchester County Courthouse**, Westchester, New York. Litigation support with regard to the delays caused during construction.
- **Paul Brown Stadium**, Cincinnati, Ohio. Investigate the structural and nonstructural deficiencies associated with the design and construction of the stadium.
- **620 Broadway**, Brooklyn, New York.
- **45 Renwick Street**, New York, New York.
- **53 North Moore Street**, New York, New York.
- **1121 Jerusalem Avenue**, Uniondale, New York.
- **New York Post**, Bronx, New York.
- **Valley Brook Golf Club**, River Vale, New Jersey.
- **Alfred Sanzari Medical Arts Building**, Hackensack, New Jersey.



- **3800 South Ocean Drive**, Hollywood, Florida.
- **Espirito Santo Plaza**, Miami, Florida.
- **Baruch College**, New York, New York.

Scaffolding and Temporary Structures Projects

- **330 Jay Street Hoist Support Structures**, Brooklyn, New York. Performed a structural peer review and independent structural stability evaluation of two high-rise scaffold/hoist support structures. Performed periodic field inspections of the structure during its construction.
- **300 Madison Avenue Hoist Support Structures**, New York, New York. Performed a structural peer review of two high-rise scaffold/hoist support structures. Performed weekly structural inspections of the structure during its construction.
- **Times Square Tower Hoist Support Structures**, New York, New York. Performed a structural peer review of two high-rise scaffold/hoist support structures. Performed weekly structural inspections of the structure during its construction.
- **731 Lexington Avenue Hoist Support Structures**, New York, New York. Performed a structural peer review and independent structural stability evaluation of five high-rise scaffold/hoist support structures. Performed periodic structural inspections of the structure during its construction.
- **Hearst Tower**, New York, New York. Performed a structural peer review and independent structural stability evaluation of two high-rise scaffold/hoist support structures. Performed periodic field inspections of the structure during its construction.
- **7 World Trade Center**, New York, New York. Performed a structural peer review of the high-rise scaffold/hoist support structure. Performed periodic field inspections of the structure during its construction.
- **One Bryant Park**, New York, New York. Performed a structural peer review of the high-rise scaffold/hoist support structure. Performed periodic field inspections of the structure during its construction.



Previous Project Experience

- **Baltimore Convention Center Expansion**, Baltimore, Maryland. Design of an 800,000 SF expansion to the existing expansion center.
- **Taikoo Place Feasibility Study**, Hong Kong. A 70 story high-rise office building comprising a total 1,560,200 SF of floor space.
- **World Trade Center Tenant Renovations**, New York, New York.
- **World Trade Center Structural Integrity Inspections**, New York, New York.
- **5 World Trade Center Emergency Generators**, New York, New York.
- **Friend Center for Engineering Education**, Princeton, New Jersey. Design of a 70,000 SF expansion to the existing engineering building.
- **BDNI Center**, Jakarta, Republik Indonesia. Design of two high-rise office buildings (one 63 story and one 45 story) and a five story restaurant/retail building comprising a total of 297,000 SM of floor space.
- **BDNI Center**, Jakarta, Republik Indonesia. Design of the main architectural feature elements – Concourse Skylight, Entrance Canopy, and the Bubble.
- **La Caixa Bank Headquarters**, Sant Cugat, Spain.

