

Ramon Gilsanz is a founding Partner of Gilsanz Murray Steficek. In his almost 40 year career as a structural engineer, he has worked on a wide range of projects, both new construction and renovation. Among the new construction projects, Mr. Gilsanz has worked on residential towers, hospitals, office buildings, industrial facilities, and specialty projects such as art installations. He has been involved in renovating buildings, theaters, and museums that have been deemed historical landmarks.

Mr. Gilsanz is active in making contributions to the structural engineering industry through involvement in professional societies. He is currently serving as Chair of the New York City Department of Buildings' Structural Technical Committee, a group responsible for the revisions of the New York City Building Code; Chair of the New York City Department of Buildings' Structural Technical Committee for the revisions of the NYC 2020 Existing Building Code; Past-Chair of the American Council of Engineering Companies of New York Metropolitan Section Structural Code Committee; past Director for the New York/Northeast Chapter of Earthquake Engineering Research Institute (EERI); Past-Chairman of the code committee of the Structural Engineers Association of New York (SEAoNY), and he is working on several committees for the American Society of Civil Engineers (ASCE), including ASCE 7-16 Minimum Design Loads For Buildings And Other Structures, American Concrete Institute (ACI), and American Institute of Steel Construction (AISC) where he currently sits on the AISC Committee on Specifications. He also participated on the Code Advisory Committee for the National Council of Structural Engineers (NCSEA) and numerous New York City Committees on Standards.

Mr. Gilsanz served on the Urban Green Council's Building Resiliency Task Force (BRTF) following Hurricane Sandy in October 2012. The Task Force studied how to improve citywide infrastructure and building resiliency as well as how to help communities become more resilient. Mr. Gilsanz has participated on several post-disaster investigative teams, traveling to Mexico City in October 2017, Ecuador in April 2016, to Taiwan in February 2016, to Greece in February 2014, to Virginia in August 2011 and to Maule, Chile in February 2010 to investigate earthquake preparedness and recovery as well as seismic code issues. He participated in the NYC DOB post-hurricane Sandy building assessment efforts as well as the national ASCE-FEMA building performance assessment team investigating the World Trade Center attack, leading the WTC7 collapse analysis.

In 2019, Mr. Gilsanz was awarded the Humanitarian Fellow Medal by the Concrete Industry Foundation and he was recognized by the American Society of Civil Engineers Metropolitan Section as a Life Member. In 2017, Mr. Gilsanz was named an Honorary Member of AIA New York State for significant accomplishments in the profession of architecture or the arts and sciences. In 2014, the American Society of Civil Engineers awarded the Homer Gage Balcom Lifetime Achievement Award to Mr. Gilsanz for a lifetime of achievement in the structural engineering of buildings, along with advances to the state-of-the-art. In 2012, Mr. Gilsanz was named an Honorary Member of SEAoNY.

In addition to his professional affiliations, Ramon was also on the board of trustees for the United Nations International School (UNIS) and has participated for over 20 years in the New York City CANstruction competition, a charity event to fight hunger.

<u>EDUCATION</u>	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Cambridge, MA
	Civil Engineer	1982
	Master of Science in Civil Engineering	1981

ESCUELA TECNICA SUPERIOR DE INGENIEROS INDUSTRIALES

Industrial Engineer, specialization in Mechanical Engineering

Madrid, Spain

1978

LICENSES

NCEES Accreditation, Registered Professional Engineer in Alabama, Arizona (PE Structural), California (PE & SE) Connecticut, District of Columbia, Florida, Georgia, Hawaii (PE Structural), Idaho (PE Civil & Structural), Illinois (SE), Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts (SE), Michigan, Mississippi, Montana, Nebraska, Nevada (PE & SE), New Mexico, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma (SE), Oregon, Puerto Rico, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Washington (PE Civil & Structural), Wyoming and the US Virgin Islands. In Spain he is registered as a civil engineer and is a member of the Colegio de Ingenieros de Camino de Madrid. ATC 20 and ATC 45 trained, and registered as a CalOES SAP Disaster Service Worker.

HONORS

Concrete Industry Foundation Humanitarian Fellow Medal in 2019

Life Member – 2019 American Society of Civil Engineers Metropolitan Section
Honorary Member of AIA New York State – 2017 for significant accomplishments in the profession of architecture or the arts and sciences.

Homer Gage Balcom Lifetime Achievement Award – awarded by ASCE in 2014 for a lifetime of achievement in the structural engineering of buildings, along with advances to the state-of-the-art, and a commitment to the advancement of the structural engineering discipline.

Urban Green Council – 2013 Service Award for Building Resiliency Task Force work.

SEAoNY – 2012 SEAoNY Honorary Membership conferred.

Fellow of American Society of Civil Engineers (ASCE) and the Structural Engineering Institute (SEI).

World Trade Center Recovery – NY Construction News, Project of the Year, 2002 and the NYS Outstanding Civil Engineering Achievement Award from the American Society of Civil Engineers (ASCE), 2002, The Concrete Industry Board, Special Recognition Award, 2003.

Heading the SEAoNY Collaboration for work at Ground Zero – Engineering News Record, The Top 25 Newsmakers, 2002.

PROFESSIONAL ASSOCIATIONS

Chair of the New York City Department of Buildings' Structural Technical Committee for the revisions of the New York City Building Code.

Chair of the New York City Department of Buildings' Structural Technical Committee for the revisions of the NYC 2020 Existing Building Code

Past-Chair of the American Council of Engineering Companies of New York (ACEC) Metropolitan Region Structural Code Committee and Metropolitan Region Vertical Construction Business Practice Committee.

Past-Director for the New York/Northeast Chapter of Earthquake Engineering Research Institute (EERI).

Past-President and Founding Member of Structural Engineers Association of New York (SEAoNY), and Past-Chair of the Code Committee.

Member of the New York City Department of Buildings' Engineer Architect Roundtable (EAR) which provides the NYC DOB with industry input and perspective.

Member of the New York City Building Resiliency Task Force organized by the Urban

Green Council following Hurricane Sandy

Past Board Member of the Applied Technology Council (ATC); 2005-2012; President in 2010-2011.

Member of the New York City Department of Building's Managing Committee. MMFX Approval. Past-Member of the Structural/Foundation Technical Committee for the Model Code Program Building Code Revision. Past member of the New York City Seismic Steering Committee.

Member of the American Society of Civil Engineers (ASCE) Committee on Progressive Collapse; Disproportionate Collapse Standard Committee and Task Force; ASCE 7-22 Main Committee and General Structural Requirements Subcommittee Voting Member; Tensioned Fabric Structures Standards; Performance Based Design; and member of ASCE 07 committee. Past-member of ASCE committees on: Tensioned Fabric Structures Standards; Structural Steel Beams with Web Openings Standards; Compression Members and Special Structures; Compression and Flexural members, Subcommittee on Education, Special Structures; and Task Committee on Strength Design in Aluminum.

Member of the American Institute of Steel Construction (AISC) Blast and Impact Resistant Design Committee; Loads Committee, TC3 Loads and Main Specification, and Structural Integrity Subcommittee.

Member of the American Concrete Institute (ACI) Performance Based Design of Concrete Buildings, Wind Loads Committee 445 and 375, Structural Integrity Committee 347 (in formation) and Performance-Based Structural Integrity & Resilience of Concrete Structures 377

Past-Member of the National Council of Structural Engineers Associations (NCSEA) Code Advisory Committee on Existing Buildings/Structural Retrofit

Past-Co-Chair of Technical Advisory Committee for NYCEM: New York City Area Consortium for Earthquake Loss Mitigation

Member of the Concrete Industry Board (CIB), American Concrete Institute (ACI) Performance-Based Design of Concrete Buildings for Wind Loads Committee, and the National Society of Professional Engineers (NSPE).

Past member of the BSSC PUC Technical Subcommittee for Masonry Structures and the New York New Visions Committee on Regulations, Codes and Permitting Process

AWARDS

730 Fifth Avenue – Cantilevered Work Platform – 2020 SEAoNY Excellence in Structural Engineering Award – Other Structures

Slice House – 2020 AIA CT Design Excellence Award

75 Rockefeller Center, New York, NY – 2019 AISC Ideas² Presidential Award for Erection Engineering to Facilitate Adaptive Reuse; 2018 ACEC NY Excellence in Engineering Platinum Award category Structural Systems

Atlanta BridgeScape Competition – 2018 American Architectural Awards

American Physical Society, Ridge, NY – 2018 AIA/LI Archi Award – Commercial Mercantile Renovation/Addition; 2017 ACEC Excellence in Engineering National Recognition Award; 2017 ACEC Excellence in Engineering Diamond Award category Structural Systems; 2016 AISC Ideas² National Award Less than \$15M; 2015 Chicago Athenaeum American Architecture Award

Porcelanosa, New York, NY – 2017 ACEC Excellence in Engineering Platinum Award category Structural Systems; 2016 ENR New York Best Projects: Office/Retail/Mixed-

Use Award of Merit; 2015 Open House New York site; 2016 SEAoNY Excellence in Structural Engineering Winner Forensic Analysis/Retrofit/Rehabilitation of Structures

Adidas NYC – 2017 SARA National Architecture Award of Honor; 2017 MAPIC Best Retail Store Design

Stapleton Branch Library – 2017 AIA/ALA Library Building Award; 2015 Wood Design Award; 2014 AIA New York State Design Award Architecture Merit Award; 2014 Lucy G. Moses Preservation Award - The New York Landmarks Conservancy; Interior Design Magazine – Best of 2013 Public Library Merit Award; 2013 AIA New York Architecture Award of Merit Institutional

The Broad Retail Shop, Los Angeles, CA – 2016 A.R.E. Design Award – Hardline Specialty Store 3,001-7,500 sf – Silver Award

Avalon West Chelsea, New York, NY – 2015 ACEC New York – Engineering Excellence Platinum Award for Structural Systems

9 Townhouses, Brooklyn, NY – 2015 Building Brooklyn Award – Best Low-Rise Residential; 2014 AIA New York State Awards Citation.

Virgin Atlantic LAX Clubhouse – 2018 AIA Los Angeles Restaurant Design Award
2015 AIA New York Design Award Citation; 2015 London International Creative Competition. Interior Design – Honorable Mention; 2015 Interior Design Magazine's 1st annual MakeItWork Award

Virgin Atlantic Newark Clubhouse – 2015 AIA New Jersey Award of Merit; 2014 James Beard Foundation Outstanding Restaurant Design Awards. Finalist; 2013 Interior Design Magazine Best of Year Lounge/Bar; 2013 London International Creative Competition. Interior Design – Finalist; 2013 Restaurant and Bar Design Awards Americas Bar- Finalist

Sierra Bonita Affordable Housing – 2014 AIA / HUD Secretary's Award for Housing Accessibility Award; 2013 AISC Ideas2 Merit Award; 2012 American Architecture Award - Chicago Athenaeum; 2012 SEAoNY Excellence in Structural Engineering Winner-New Under \$30M; SEAOSC Award of Merit for Excellence in Structural Engineering; 2011 – New Construction, Interior Design Magazine – Best of Year 2010, Multi-Unit Dwelling, Los Angeles Business Council – 2008 Architectural Award for Design Concept

Virgin Atlantic JFK Clubhouse – 2015 SARA National Design Award for Interiors; 2014 AIA New York Design Award Interior Merit Award; Interior Design Magazine – Best of 2012 Hospitality Honor Award; 2012 FX Award for Leisure or Entertainment Venue

Jane's Carousel – 2013 AISC Ideas2 National Certificate of Recognition; 2012 Municipal Art Society of New York 2012 MASTerworks Award for Best New Urban Amenity; 2012 SEAoNY Excellence in Structural Engineering Finalist-Other Structures; 2012 Building Brooklyn Award – Recreational Facility

A Noise Within – 2013 SEAOC Award of Merit – Retrofit and Alteration

St. Thomas the Apostle School – 2013 Los Angeles AIA Design Award; 2012 ACEC New York Engineering Excellence Award – Silver, Steel Joist Institute 2011 Design Award – Honorable Mention, California Construction Best of 2010 (Southern California, K-12 Education), Los Angeles Business Council – 2010 Architectural Award for Projects Under Construction

Moving Picture Company – 2011 AIA Institute Honor Award for Interior Architecture, Los Angeles Business Council - 2009 Architectural Award for Commercial Interiors, Interior Design Magazine – Best of the Year 2009, Small Office

Cai Guo-Qiang: I Want to Believe Exhibit, Inopportune: Stage One, at the Guggenheim – 2011 NCSEA Excellence in Structural Engineering - Other Structures Category, 2011 SEAoNY Excellence in Structural Engineering Finalist

Pomona Skyspace – NCSEA 2010 Excellence in Structural Engineering Award, SEAOC Award of Excellence in Structural Engineering 2009 - Special Use Structures

Michaels Residence – 2013 AIA Pasadena & Foothill Chapter Citation; 2010 Cornerstone Concrete Excellence Award; 2010 Excellence Award, Residential Concrete Building Category, Southern California Concrete Producers; 2010 AIA Los Angeles – Merit Award

Torre Caja Madrid – Institution of Structural Engineers (IStructE) - 2009 Structural Awards for Commercial or Retail Structures

Pasadena Bike Transit Center – Los Angeles Business Council – 2009 Architectural Award for Design Concept

Private Library and Writing Studio – AIA New York Chapter – Design Award, 2008

Hoboken Ferry Terminal and Clock Tower Restoration – New York Construction – Best of 2008, Best Marine Project

Avalon White Plains - ACEC New York – Engineering Excellence Silver Award, 2008

14 Townhouses, Brooklyn, NY – AIA Housing Award - One and Two-Family Production Homes – 2010, AIA New York State - Citation 2007

Lever House Staircase – Interior Design Magazine – Best of the Year 2007, Standout Staircase

La Maison Unique – Longchamp - New York Construction – Best of 2006, Best of Retail, AIA Westchester/Mid-Hudson – First Honor Award, 2006, ACEC New York – Engineering Excellence Silver Award, 2007

Fine Living: 2026 Installation, NeoCon West – Interior Design Magazine – Best of the Year 2006, Exhibit/Installation

Brooklyn Supreme and Family Courthouse – 330 Jay Street - ACEC New York – Engineering Excellence Platinum Award, 2006, Society of American Registered Architects, National Design Award, 2006

Best Structural Engineering Firm to Work For (National Competition) – Structural Engineer Magazine, ranked 7 out of 10 in 2003, ranked 14 out of 15 in 2004, ranked 10 out of 25 in 2005.

7 World Trade Center Collapse Hypothesis – National Science Foundation Science and Engineering Visualization Challenge, Honorable Mention, Informational Graphics 2005

2000' Television Transmission Tower – ACEC New York, Engineering Excellence Platinum Award, 2005

300 Madison Avenue – ACEC National Finalist, 2005, ACEC New York, Engineering Excellence Diamond Award, 2005, BOMA Pinnacle Award, 2005, New York Construction News, Office Award of Merit, 2003.

Keep Off The Grass! Planar Landscape Phenomena – Contract Magazine, Interior Award Winner, Exhibit Category, 2005.

A Guideline Addressing Coordination and Completeness of Structural Construction Documents – Engineering News Record, Top 25 Newsmakers 2004

Rehabilitation of NJ Transit Storage Yard “B” & Support Facilities – ACEC New York, Engineering Excellence Gold Award, 2004

Time Warner Center – NY Construction News, Project of the Year, 2003

217 Broadway – NYACE (NY Assoc. of Consulting Eng.), Honor Award, 2000

838 Fifth Avenue – NYACE (NY Assoc. of Consulting Eng.), Gold Award, 2000

Taghkanic House, Taghkanic, NY – AIA National Honor Award, 2004, the Chicago Athenaeum American Architecture Award, 2003, AIA NY Chapter Honor Award, 2003, AIA National (Progressive Architecture Award) Architectural Award Citation, 1999

Hoboken Terminal Waiting Room Restoration – New York Construction News – Renovation Project of the Year, 2000

Von Erlach House Addition, Shelter Island, NY – AIA National (Progressive Architecture Award) Architectural Award Citation, 1999.

Daily News Printing Plant – CECNJ (Consulting Engineers Council of New Jersey) - National Honor Award, 1996, ACEC (American Consulting Engineers Council), National Honor Award of Excellence, 1996.

1166 River Avenue, Bronx, NY – AIA NY City Chapter, Design Award, 1994

Pomeroy Residence (235 Central Park West) – AIA NY City Chapter Design Award, 1994, AIA NY State Chapter Award, Excellence in Design, 1994

Solar Parking Canopy, Stony Brook, NY – Competition for a canopy to support a solar panel array over an open parking lot, Honorable Mention, May 1991

EXPERIENCE

**GILSANZ MURRAY STEFICEK
PARTNER**

January 1991 to Present

REPRESENTATIVE PROJECTS - NEW CONSTRUCTION

Sportime – Randall’s Island, NY

The Sportime/John McEnroe Tennis Academy is the largest public tennis facility built in New York City in half a century. The project is a key component of the redevelopment of Randall’s Island into a city-wide destination for sports and active recreation. GMS has provided several schematic alternatives for a new field house within the proposed expansion of the Sportime Tennis Center with a clear span of 130 feet.

Toyoko Inn – Long Island City, NY

New, approximately 300,000 sf, 1,049 key, 50-story hotel with three cellar levels. The G train subway line runs below Jackson Avenue with the Court Square station to the south of the site and the elevated portion of the 7 subway line runs adjacent to the west side of the site.

Meadow Pavilion, Cross River – New York, NY

GMS provided structural engineering for the new single-family residence and for the extensive site retaining walls and landscape features on this hilly site. The house has a full unfinished basement, fully finished first floor and fully finished second floor with an exterior balcony and an unenclosed, attached carport. The project included multiple guest house buildings as part of a complex of houses. Construction consisted of state of the art architectural design involving glass, steel and concrete.

68 / 74 Trinity Place – New York, NY

New 400 foot tall, 325,000 sf mixed-use building, with two basements, 32 floors plus mechanical and penthouse levels.

235 Grand Street – Jersey City, NJ

New 45-story luxury residential building of approximately 671,523 sf and a new 10-story luxury residential building of approximately 124,063 sf, both within the Liberty Harbor North Redevelopment Zone.

27360 Escondido Beach Road Residence – Malibu, CA

GMS provided structural design of the foundations and superstructure for a new, 3,121 sf, two-story, two-bedroom, beachfront single-family residence. The oceanfront site is subject to lateral spreading, and the foundation was designed to resist this force in addition to the seismic and flood loading. Site improvements include the installation of an access driveway, jacuzzi, and private sewage disposal system.

Meadow Lane House – Southampton, NY

Two-story house with a full basement, pool and tennis pavilion, constructed in the flood plain using post-tensioned architectural concrete. The house includes a structurally independent brise-soleil and the exterior walls are thermally isolated from the interior. GMS worked with the contractor to avoid support of excavation by sloping the soil.

Sculpture Studio – 193 Banker St, Brooklyn, NY

GMS provided structural engineering services for the conversion of the former industrial warehouse to the new 20,000 sf Studio for the sculptor and his team. GMS engineered extensive modifications to the existing structure to accommodate new office spaces, the addition of an elevator shaft and new egress stairs. Most significantly, the project includes a new two-story 6,000 sf stone fabrication hall, various art workshops, two planted green roofs and a new courtyard to store art. Two 20-ton bridge cranes allow stone blocks to be maneuvered through the studio.

302 East 96th Street – New York, NY

New 21-story residential development of approximately 70,000 sf. Preliminary geotechnical report indicates that the site is located in a former riverbed or swamp, so deep foundations may be required. Deep foundations require additional borings and further geotechnical investigation. The Second Avenue subway tunnels run near the site and there is a subway station under construction at East 96th Street.

4220 Montclair Street Apartments – Los Angeles, CA

GMS provided the structural engineering for this new five-story, 46-unit apartment building with grade-level and subterranean parking. A 1,500 sf retail space will be located on the ground floor along with an on-grade parking lot. The floors above will consist of a mix of studio and one-bedroom apartments totaling roughly 21,800 sf of residential space. Community spaces will include a central courtyard and roof deck.

1919 South Western Avenue Mixed-Use Development – Los Angeles, CA

A new five-story mixed-use development in Los Angeles. The development will feature two levels of subterranean parking, commercial spaces on the ground floor, and 22 residential units above. The project will have a new construction area of approximately 27,000 sf and will be a mix of Type I and Type V construction.

American Physical Society – Ridge, NY

GMS provided structural engineering services for the renovation and expansion of the APS Editorial Headquarters in Ridge, NY. The site is located within the Long Island Pine Barrens Preservation area, so we were not allowed to expand the building footprint. The addition was constructed above the existing building, while the facility maintained operations.

Herb Alpert Educational Village**Capshaw-Spielberg Center for Arts and Educational Justice – Santa Monica, CA**

Completed in 2013, the Center is a 30,000 sf, three-story building made up of three components: the Ann and Jerry Moss Theater, the Leadership Center, and a space for high school classrooms and administrative offices. All three areas serve the New Roads School, the local community, as well as the twelve non-profit organizations (NPO) who call the Herb Alpert Educational Village home.

Ando House – Malibu Road, Malibu, CA

Structural design of a new, three-story, 4,000 sf, single-family residence located on an ocean front property sited on a hill directly adjacent to the water. The structure will be constructed primarily from cast-in-place concrete and special attention has been given to the designing of exposed concrete surfaces to accommodate the effects of salt water.

Avalon West Chelsea – New York, NY

This new residential building located between Eleventh and Tenth Avenues in the Chelsea, is approximately one block long. The “L-shaped” building is approximately 588,000 sf. The building height ranges from one to thirty-one stories and will be built on piles.

PS 1 – Contemporary Art Center, Visitors Center, Queens, NY

A new single-story, architectural concrete entry building for PS 1, constructed within the existing courtyard walls, adjacent to the subway.

Malibu Residence – Malibu, CA

A new two-story single-family 7,300 sf residence constructed with architecturally exposed concrete shear walls and slabs, steel framing and steel and glass window walls. Located above the coast, the residence rests on a site sloping downward to the south and east with steps in the grade elevation. Deep pile foundations anchor the structure and site retaining walls to the hillside.

Sierra Bonita Mixed-Use Affordable Housing – West Hollywood, CA

A five-story mixed-use building, where steel framing with long span decks are used to accommodate the parking grid below and to minimize floor to floor height. The building contains 43 one bedroom units; each is approximately 620 sf. Commercial/retail space is located at ground level. Parking is provided at grade for retail and visitors. Resident parking is located in the subterranean garage. An outdoor courtyard provides a garden for residents from which access to the units is provided. Each apartment has its own private balcony. This project received a Los

Angeles Business Council Design Concept Award in 2008.

Central Market Office Tower – Abu Dhabi, UAE

GMS teamed with Halvorson and Partners to perform structural design for this new 938 foot reinforced-concrete office tower, which is part of a 7,534,737sf mixed-use development in Abu Dhabi. The 61-story tower has a roof at a 50 degree angle from the vertical to maximize sunlight received. The tower floor framing consists of one way slabs spanning to post tensioned beams. The lateral system is a concrete shear wall at the core stiffened by outrigger trusses and belt walls at the perimeter.

St. Thomas the Apostle School – Los Angeles, CA

Structural design of 20,000 sf of new educational buildings with 58,000 sf of subterranean parking and renovation of an existing 11,500 sf school building. Also fully engineered and detailed the exterior curtainwall/building envelope cold-formed stud framing and the interior partition cold-formed stud framing for the school's new building addition.

Apple – 1415 Third Street, Santa Monica, CA

GMS was retained by the façade and roof contractor to provide performance calculations and to serve as Engineer of Record for the glass storefront and skylight components of Apple's Third Street Promenade location.

Apple Store – Stanford Shopping Center, Palo Alto, CA

GMS provided performance calculations and served as the Engineer of Record for the glass storefront and the glass roof components, as a consultant to the glass contractor.

Private Library – Long Island, NY

This new copper clad library and writing studio is framed of structural steel and timber and serves as a private, contemplative space for a historian on Long Island. Winner of 2008 AIA New York Chapter – Design Award.

Torre Caja Madrid – Madrid, Spain

Recently completed, Caja Madrid is an 820 foot tall, 900,000 sf office tower with a 5-level, 400,000 sf underground parking garage. Caja Madrid's distinct form, two external cores bracketing a central office floor plate and supporting the entire weight of the tower, evolved in a collaborative design process – bearing in mind the principles of efficient tall building structural design. Structural design in conjunction with Halvorson and Partners of Chicago.

Avalon White Plains – White Plains, NY

Design of a new 407-unit apartment development, including 325 apartments, a 12-unit, four-story townhouse complex and garage, totaling approximately 503,500 gsf.

Avalon on the Sound – New Rochelle, NY

24story, 430,000 sf apartment building with 70,000 sf parking garage. Includes landscaped roof deck and ground floor retail space.

300 Madison Avenue – New York, NY

1.2 million sf. office building on the southwest corner of 42nd Street and Madison Avenue in New York City. The major objectives of the design were keeping to a schedule and budget, while delivering a serviceable and strong structure to address the post 9/11 safety concerns of the tenant. Creative structural solutions allowed the Client and the Contractor flexibility in construction and cost. The atypical use of 65 ksi steel and the deliberate design served to attain these objectives.

Taghkanic House – Taghkanic, NY

6,700 sf residence with upper glass pavilion built atop a concrete plinth which is covered with a berm and planted to blend seamlessly into a hill side.

United Talmudical Faculty Housing – Williamsburg, NY

19 four-story, two family houses, totaling 90,000 sf. Construction budget \$7,000,000. Typical house construction is masonry units with C-Joists. Architect: Ruben Gross Assoc.

Cranbrook Academy of Arts – Bloomfield Hills, MI

Stainless steel entrance canopy with copper wire mesh, a brick guardhouse and steel retaining wall. Arrival plaza with concrete benches, sculptures and a patterned paving plan, and lamp posts across the campus.

Staten Island University Hospital – Staten Island, NY

Eight-story, 130,000 sf hospital and a 40,000 sf one-story addition to an existing wing.

Ramapo Service Plaza – Ramapo, NY

17,000 sf service building and extension to existing pedestrian bridge.

Tewksbury Police Headquarters – Tewksbury, NJ

14,000 sf police station, wood construction.

Turning Stone Casino for the Oneida Indian Nation of New York – Verona, NY

70,000 sf Casino.

Chagrin Highlands – Cleveland, OH

Design of a new 130,000 sf suburban office building.

Daily News Printing Plant – Jersey City, NJ

Design of a new 450,000 sf color printing plant, including renovation and restoration of existing facility.

REPRESENTATIVE PROJECTS- RENOVATION AND REHABILITATION**International Bank – North America Region Risk Assessments – Various Locations**

Since 2012, GMS has performed seismic hazard reviews for over 400 branches and office facilities throughout the United States, Canada, and the Cayman Islands for this confidential client. We are currently designing seismic retrofits for twenty-three (23)

of these facilities, most of which are in California.

Townhouse – 77 Jane Street, New York, NY

GMS is providing structural engineering services for the renovation of two adjacent historic townhouses in Greenwich Village to create one four-story residence with an occupiable roof and full cellar. Our work includes the feasibility study and the structural design to lower the cellar by about 12 feet and to extend it into the rear yard to create a lap pool with a skylight and planted roof, which will serve as a rear garden. GMS also provided the support of excavation design which extended below the water table. The combined residence also includes a new elevator, new mechanical systems, with a generator and solar-heated hot water. Windows in the rear walls will be enlarged and reinforcing will be provided to resist lateral loads.

Retail Redevelopment & Temporary Work Platform

730 Fifth Avenue, New York, NY

GMS is providing structural engineering for the extensive redevelopment of the retail portions of the Crown Building, located at the corner of Fifth Avenue and West 57th Street. This multi-phase project included the structural design necessary for the relocation of the building lobby, the upgrades associated with all egress changes and mechanical upgrades for the building conversion, as well as the redesign for multiple high-end retail spaces along 56th and 57th Streets and along Fifth Avenue. All structural work took place while simultaneously upgrading the existing building super- and substructure for the design of a 20-foot-wide cantilever working platform with a capacity of 300 psf, which will provide tenants a column-free sidewalk while protecting pedestrians of these heavily trafficked blocks during the building renovation. The reinforcement of the building perimeter columns, existing framing and lateral system were integrated into the multiple retail tenant fit-outs.

MCC Theater – New York, NY

GMS provided structural engineering services to create the new home for MCC Theater an Off-Broadway nonprofit focusing on new work by living writers. The Theater is 27,000 sf located in the lower levels of the Avalon Clinton building at Tenth Avenue and West 52nd Street in Manhattan's Hell's Kitchen neighborhood, over the Amtrak train tunnels. This venue provides a 245-seat proscenium-style theater, a 100-seat flexibly configured theater, two rehearsal studios and all the amenities expected in a modern theater including workshop spaces and a bar. Construction cost was approximately \$45,000,000.

75 Rockefeller Plaza – New York, NY

The top-to-bottom overhaul of this landmark, built in 1947 included new double-height glazing and upgraded entry. A reconfigured lobby required transfer of four existing building columns. The elevators, electric and HVAC systems have all been updated and a new irrigation system collects rainwater for the terraces. The 33-story building is LEED Gold certified.

Porcelanosa – 202 Fifth Avenue, New York, NY

Porcelanosa's new US Flagship required the full gut renovation of the existing six-story

18,000 sf building to create a trade/retail showroom with accessory office spaces. GMS provided structural engineering, façade and waterproofing consulting, special inspection and construction monitoring services.

Microsoft Store – 677 Fifth Avenue, New York, NY

This renovation involved the removal of several building columns between the cellar and fourth floors and provided a new feature stair, new elevator and new storefront façade. The stair, constructed from hollow steel tube sections, extends from ground to third floor, is supported at the top and bottom and with two vertical tubes on one side of the middle flight of steps.

Virgin Atlantic Lounge – LAX, Los Angeles, CA

GMS provided the structural engineering for the brand new Virgin Atlantic Clubhouse at the Los Angeles International Airport in Terminal 2.

TopShop TopMan – 608 Fifth Avenue, New York, NY

This existing building built in 1931 is a combination of an 11-story building with two basement levels and a four-story building with one basement. GMS provided structural engineering services for an additional passenger elevator which will service the cellar to the 3rd floor as part of the redevelopment.

New York City Rescue Mission – 90 Lafayette Street, New York, NY

GMS provided structural engineering for the addition of three stories, approximately 11,000 sf, over the existing three-story building, and reinforced the structure to resist increased wind and seismic loads. The project also required review and approval from the New York City Transit Authority due to the adjacent subway line.

Stapleton Branch Library – 132 Canal Street, Staten Island, NY

Renovation and expansion of the current, 2,500 sf library, with a 10,500 sf addition. The new layout includes reading room areas for adults, young adults and children, a new story hour area adjacent to the children's reading room, a computer training area, and a new community room. New staff facilities include a new workroom, head librarian office, children's librarian office, and a staff lounge.

A Noise Within – Pasadena, CA

Glendale's classical repertory company A Noise Within commissioned a 33,000 sf three-story theater built within the footprint of the partially demolished Stuart Pharmaceutical Company, a landmark designed by Edward Durell Stone. The 300-seat theater features 60-foot column free spans supported by steel trusses, and over 250 feet of catwalk to support lighting fixtures and audio equipment.

Uniqlo – Fifth Avenue, New York, NY

GMS served as the structural engineer and consulted on the curtainwall and interior glass design for Uniqlo USA's global flagship store on Fifth Avenue and 53rd Street in Manhattan. The store occupies 3 floors covering 89,000 sf. The design featured extensive reinforcing of the building lateral system in order to create an eight bay atrium opening on two floors, leading shoppers to the third floor retail area. GMS also

designed the support for the new elevators, escalators, specially detailed stairs with back-lit risers and some unique design features for this store including the platforms for rotating mannequins.

Uniqlo – West 34th Street, New York, NY

The building at the 34th Street location was originally built in 1906 and received multiple additions and renovations throughout the beginning of the 20th Century. The key feature of this store is the centrally-located three-story glass box which required creating a 30-foot by 20-foot opening through two floors of the terra-cotta slab structure.

5 Madison Clock Tower Load Test – New York, NY

Provided a study and load tests of the typical floor construction with the tie rods removed in the clock tower building. The study consists of analysis of the floors in representative portions of the building and load tests on a sampling of the representative conditions structural and new loading conditions.

522 Fifth Avenue – New York, NY

GMS provided Structural Engineering Services for the redevelopment of this 23-story building in midtown Manhattan. Work included new facades, storefronts, MEP upgrades and multiple tenant fit-outs.

Longchamp Stair – 128-132 Spring Street, New York, NY

Vibration study and structural optimization for a 55-ton steel stair Longchamp's new flagship store in SOHO. This stair synchronizes architecture and structure to form an elegant, fluid path up to the second floor.

Rehabilitation of Engine Co. 217 Firehouse – 940 DeKalb Ave, Brooklyn, NY

Structural Design for the upgrade and rehabilitation of an existing landmark-type firehouse constructed in the late 1800's to meet new equipment requirements and specifications. Client: NYC DDC for the Fire Department of NYC

Rehabilitation of Engine Co. 235-206 Firehouse – 206 Monroe St, Brooklyn, NY

Structural Design for the upgrade and rehabilitation of an existing landmark-type firehouse constructed in the late 1800's to meet new equipment requirements and specifications. Client: NYC DDC for the Fire Department of NYC

Rehabilitation of Engine Co. 259 Firehouse – Long Island City, NY

Upgrade and rehabilitation of an existing three-story firehouse with cellar, originally constructed in the late 1800's to meet new equipment requirements and specifications. The design involved the replacement of the existing floor to support HS 20-44 and Tower Ladder Truck equipment, relocation of interior columns to provide an additional vehicle bay and upgrade of foundations and upper floor framing. Client: NYC DDC for the Fire Department of NYC

Instituto Cervantes at Amster Yard – New York, NY

GMS provided Engineering services for this complex project. Included are a new 132-

seat auditorium, a 65,000-volume library, a 1,600 sf gallery, classrooms, offices and a wine-tasting room. The original buildings were demolished, the landmark facades were preserved and the courtyard, which replicates the original landmark Amster Yard, was reinstalled above a new basement. All meet the needs of the Instituto.

Louis Vuitton, Americana Manhasset – Manhasset, NY

Tenant fit-out and design for the storefront supports at new 7,718 sf retail space in a high-end mall on Long Island.

Louis Vuitton – Yacht Haven, St. Thomas, USVI

Design of storefront and storm panel connections to the base building structure for this boutique in the Caribbean.

Verizon – Basking Ridge, NJ

The 138-acre campus includes a seven building main complex, several residential properties and a retention pond, approximately 1.4 million sf. The main building is “L” shaped with the large amenity and executive functions located at the vertex (Building 4) and general office space concentrated in the two wings. Building 1, 2 and 3 and Building 5, 6 and 7 make up each of the two wings respectively.

AOL Time Warner – Columbus Circle, New York, NY

Extensive interior fit-out of 16-stories for 10 Columbus Circle studio and office spaces, including stairs, mezzanines, and structural reinforcement for high density file systems and for information technology infrastructure.

Issey Miyake Headquarters – 119 Hudson Street, New York, NY

Renovation of the ground floor, cellar, and sub-cellar in an existing 1880’s timber and cast-iron warehouse into retail, showroom and office space, including a new stair and elevator. Glass floor panels and sliding glass wall panels were added to modernize the 15,000 sf space.

New York University, Tisch School of the Arts – New York, NY

Multiple renovations of interior space at 715-719-721-725 Broadway spanning over 10 years. Projects include structural work for new classrooms, office space, mechanical systems, storefront, recording studios, etc.

New York University, University Club and School of Education – New York, NY

Interior renovation of two existing buildings to create one functional 55,000 sf space, plus a new one-story mechanical penthouse. Provided controlled inspection and in-situ materials testing services.

838 Fifth Avenue – New York, NY

Expansion and conversion of an existing 11-story, 44,000 sf office building into a 12-story, 66,000 sf residential building. The interior of the building was completely reconfigured while the original landmark limestone façade was left intact.

90 Church Street – New York, NY

Interior renovation of 16-story, 1,000,000 sf landmark office building of U.S.P.S. to accommodate tenant fit-out requirements. Facade restoration and study of seismic capacity of structural and non-structural elements. Included strengthening recommendations.

Hoboken Terminal Waiting Room Restoration – Hoboken, NJ

Renovations and new construction of railroad facilities including historic terminal, support buildings and bridges.

217 Broadway – New York, NY

33,000 sf, three-story addition to existing 160,000 sf commercial building.

New York University – 75 Third Avenue Data Center, New York, NY

Reinforcement of basement at 75 Third Avenue Dormitory to support a new data center with 175 psf loading. Also analyzed existing roof structure to receive new mechanical equipment.

Crown Theaters – Stamford, CT

Creation of a nine-screen multiplex theater from an existing 110,000 sf building that originally contained a single three-story movie theater, retail stores and offices.

Hoboken Railroad Yard B – Hoboken, NJ

General renovation of a railroad yard including a new four-track, 65 foot long rail bridge, new 26,000 sf multi-purpose building with sections for train inspections, locomotive fueling and sanding, train washer and employee facility. Site improvements include structural supports for the catenary, structural supports for the yard lighting and site retaining wall. Winner of the 2003 ACEC Gold Award.

Center for Jewish History – New York, NY

52,000 sf of new construction and 90,000 sf of renovation. Comprised a total of six buildings, 2 new and 4 existing.

880 Fifth Avenue – New York, NY

Renovation of a landmarked 21-story apartment building with penthouse. GMS has also provided professional services for a garage assessment and repair project, as well as façade, roof, and terrace renovations; Local Law 11 inspection; and report and repair recommendations.

21 Club – New York, NY

Renovation of existing six-story restaurant/bar with the removal of 60 foot long bearing wall.

Landmark Square Parking Garage – Stamford, CT

Evaluation of 430,000 sf below grade concrete parking structure and preparation of restoration documents.

Theater First Foundation, Century Theater – New York, NY

Conversion of a 14,000 sf landmarked residential building into a new theater.

Guggenheim Museum SoHo – New York, NY

30,000 sf renovation of existing landmarked building into museum gallery, restaurant and office space. TAS Technical Architect, Arata Isozaki Design Architect.

1016 Fifth Avenue – New York, NY

\$700,000 penthouse apartment renovation including the replacement of 30 feet of wall with window and a new skylight.

REPRESENTATIVE PROJECTS- FORENSIC PROJECTS

Transbay Transit Center - San Francisco, CA

GMS provided subject matter expert structural engineering consulting for the Mediation regarding this project.

85-15 Queens Boulevard – Queens, NY

GMS was retained by the law firm representing the Engineer of Record, to review all Examination before trial (EBT) deposition transcripts related to the support of excavation and construction of foundations for a new construction project. We found that the Land Surveyor had provided the Engineer of Record with incorrect information regarding the water main and manhole locations. During construction, a pile struck the water main resulting in damage due to flooding. In our opinion the Engineer of Record met the standard of care and the case is expected to settle.

40 Meadow Lane – Southampton, NY

In 2018, GMS was hired to evaluate and report our findings regarding the quality of concrete used in this private home. The concrete was originally placed in 2015. We found after inspection and further evaluation of cores taken from the in-place third floor concrete slabs, that there was no structural cracking or evidence of unusual deflection and concluded there were no structural issues with the concrete which might impair the use of the home.

Las Vegas Development – Las Vegas, NV

Structural engineering condition assessment report to identify potential construction errors, omissions, deficiencies, and/or non-conformances.

Windsor Fire Investigation – Madrid, Spain

Forensic engineering, data collection and collapse investigation of a 32-story building, 2005.

Atlantic City Hotel – Atlantic City, NJ

Forensic engineering investigation services for a 10-story garage for the Hotel and Casino in connection with a collapse.

World Trade Center 7 – New York, NY

Forensic investigation for NIST into the mechanism of collapse of the World Trade Center Building 7 after 9/11. The project involved linear and non-linear analysis of the 2,000,000 sf structure from the scale of the entire building to that of sub-models of several story portions, to individual floor framing bays, and down to the level of individual fillet welds. The project began in 2003 and was completed in 2005.

World Trade Center Assessment – New York, NY

GMS participated as one of 15 SEAoNY Emergency teams which undertook the rapid damage evaluations and Damage emergency structural evaluations of approximately 400 buildings in the immediate vicinity of the WTC site. Teams assessed damage and determined which buildings were structurally safe to re-occupy and those which required restricted access. Findings were reported in both FEMA 403 and SEAoNY's "World Trade Center Emergency Damage Assessment of Buildings", Inspections of September and October 2001.

World Trade Center – New York, NY

Ramon Gilsanz participated as one of 26 BPAT members of the FEMA/ASCE-SEI Building Performance Assessment Team after 9/11. The team wrote FEMA 403, "World Trade Center Building Performance Study: Data Collection, Preliminary Observations Recommendations," published in May 2002.

World Financial Center – New York, NY

Forensic investigation followed by glass and façade repair details for the Winter Garden and the office buildings of the WFC after 9/11.

REPRESENTATIVE PROJECTS- ART INSTALLATIONS**5 Elements West**

Structural engineering for miscellaneous metals and other elements designed for the contractor, 5 Elements West. Projects include 7 West 21st St – Cabinet Mockup; 23 Lexington Ave Storefront; 787 Eleventh Avenue – GFRP Panels & Railing; Graduate Hotel, Roosevelt Island, NY – Bookcase Mockup; St. Michael's Villa – Railing; Graduate Hotel – Ceiling Sculptures; 108 Leonard St – Lobby gates; 11 Hoyt St – Jungle Gym; 11 Hoyt St – Shelving; 277 Park Avenue – Louver and signage.

Peter Fischli David Weiss: How to Work Better

GMS assisted the Artists and Museum to design, anchor and review the Haus sculpture which was installed on the Fifth Avenue sidewalk outside the museum.

James Turrell – Aten Reign, Solomon R. Guggenheim Museum, NYC

GMS provided structural engineering for James Turrell's first exhibition in a New York museum since 1980. AtenReign focuses on the artist's groundbreaking explorations of perception, light, color, and space, with a special concentration on the role of site-specificity in his practice. The art reorients visitors' experiences of the rotunda from above to below; using natural and LED lighting to give viewers an entirely new experience of the building. Other works from the artist's career are displayed in the

museum's Annex Level galleries, offering a complement and counterpoint to the new work in the rotunda. Summer 2013.

Maurizio Cattelan – Solomon R. Guggenheim Museum, New York, NY

The installation involved the suspension of the artist's repertoire from the oculus of the museum rotunda. GMS provided structural engineering services for the exhibition, working closely with the museum's mount, fabrication, and conservation departments in order to support each work of art. The exhibit is a novel approach to the viewing of art and will be sure to have an impact on the way that museums display art in the future. November 2011 to January 2012.

Cai Guo-Qiang: I Want to Believe – Solomon R. Guggenheim Museum, New York, NY

This exhibition included nine cars, stripped of their engines, reinforced and suspended at different heights within the rotunda; 99 stuffed wolves, several boat hulls and a fiberglass "river" among other things. GMS worked with the museum's Fabrication Department to sequence the installation of each piece; we checked the capacity of the original building to support the art and specified the cables, connectors and anchors to realize this exhibit. February 22 to May 28, 2008.

Brazil: Body and Soul – Solomon R. Guggenheim Museum, New York, NY

This exhibition included structural steel frame for a 50 foot high, cedar altar, which was extracted from a Brazilian church, Sao Bento de Olinda for restoration and installed temporarily at the Museum. October 19, 2001 – May 29, 2002

Frank Gehry, Architect – Solomon R. Guggenheim Museum, New York, NY

This exhibition included 95-foot long aluminum coil mesh curtain panels, hung from the museum rotunda skylight and tied back to the base of the spiral ramp, as well as a titanium and steel canopy, installed on the Fifth floor roof terrace. May 18, 2001 – September 4, 2001

Cooper Hewitt, National Design Museum – New York, NY

Structural consulting for various exhibits and installations including:

Design of the Other 90%

May 4, 2007 – September 23, 2007.

Triennial Wall Flowers (Ken Smith Landscape Architect)

December 8, 2006 – July 29, 2007

**SKIDMORE, OWINGS & MERRILL
ASSOCIATE**

February 1987 – December 1990

Mr. Gilsanz was a senior design engineer responsible for project management, involving all phases of design and construction, from initial client contact through field observation. He participated in the use, testing and development of IBM Architectural and Engineering Series Software. He also developed a C-language optimization program in an IBM-RT computer.

**THE OFFICE OF IRWIN G. CANTOR
PROJECT ENGINEER**

November 1984 – January 1987

Responsible for complete parts of projects, coordinated design engineers. Developed a FORTRAN optimization program on a Prime computer.

**LEMESSURIER ASSOCIATES/SCI
DESIGN ENGINEER**

April 1982 – October 1984

Design and analysis of building components. Extensive use of ADINA and STAAD-III computer analysis programs on a CRAY and VAX computer system. Developed several FORTRAN programs for the design of structural components.

PRESENTATIONS AND JURIES Optimal Design of Reinforced Concrete Structures, R. Gilsanz, E. Kim, N. Gomez, ASCE/SEI Structures Congress, Orlando, FL, April 24-27, 2019

Findings from the ATC Mexico City Earthquake Reconnaissance, R. Gilsanz, J. Lan, ASCE/SEI Structures Congress, Orlando, FL, April 24-27, 2019

ASCE/SEI Design Guide Alternative Load Path Analysis Guidelines for Disproportionate Collapse, R. Gilsanz, K. Rubenacker, ASCE/SEI Structures Congress, Orlando, FL, April 24-27, 2019

Technical Challenges in a Structural Consulting Firm, First Colloquium of the Spanish Theoretical and Applied Mechanics Society, Madrid, Spain, March 28, 2019

Understanding Resilience through a Musical Analogy, University of California, San Diego, La Jolla, CA, February 5, 2018

Understanding Resilience through a Musical Analogy, Northeastern University, Boston, MA, October 23, 2017

Simplified Analysis to Predict Collapse Resistance, R. Gilsanz, A. Mahvashmohammadi, ASCE/SEI Structures Congress, Denver, CO, April 6-8, 2017

75 Rockefeller Plaza: Column Transfers, J. Mugford, J. Hinchcliffe and R. Gilsanz, ASCE/SEI Structures Conference, Denver, CO, April 6-8, 2017

Regions – Hazards – People, Keynote, International Conference on Natural Hazards & Infrastructure, Chania, Greece, June 28-30, 2016

GEER-ATC Ecuador Reconnaissance: Liquefaction and Geotechnical Aspects of the Ecuador Earthquake of April 16. 2-16, R. Gilsanz, V. Diaz, International Conference on Natural Hazards & Infrastructure, Chania, Greece, June 28-30, 2016

Understanding Resilience through a Musical Analogy, International Conference on Natural Hazards & Infrastructure, Chania, Greece, June 28-30, 2016

NSF-GEER Response to Ecuador Earthquakes: From Reconnaissance to Resiliency – Muisne, Ecuador Earthquake of April 16, 2016: summary, local and regional impact, dollar and life loss; S. Nikolaou, R. Gilsanz and X. Vera, White House Briefing on Earthquake Response in Ecuador, June 3, 2016, Washington D.C.

Structural Integrity of Steel Connections – Estimating Collapse Capacity of Steel Moment Connections Subjected to Column Removal, Eighth International Workshop on Connections in Steel Structures, May 24-26, 2016, Boston, MA

Building Code Evolution Due to Extreme Events, 2016 Geotechnical and Structural Engineering Congress, Phoenix, AZ, February 17, 2016

Understanding Seismic Design through a Musical Analogy, Louisiana Civil Engineering Conference, Kenner, LA, September 23, 2015

New AISC Design Guides: 26-Design of Blast Resistant Structures, 2014 Structures Congress, Boston, MA, April 3, 2014

Design of a High-Rise Steel Building to Resist Disproportionate Collapse, 2014 Structures Congress, Boston, MA, April 3, 2014

Earthquake Reconnaissance of GEER/EERI/ATC in the 2014 Cephalonia, Greece Events, 2014 Structures Congress, Boston, MA, April 3, 2014

Are We on Shaky Ground? Earthquakes and New York City, presented as part of the exhibit: Considering the Quake hosted by the Center for Architecture in conjunction with EERI-NY/NE chapter, New York, NY, February 27, 2014

Investigation for the Removal of Steel Tie Rods in a Historic Segmental Arch Floor System, 1st Annual Residential Building Design and Construction Conference, February 2013. Also presented at 2013 Structures Congress, Pittsburgh, PA, May 2013

Sierra Bonita: Innovative use of Long Span Metal Deck Slabs and Shored Construction, 1st Annual Residential Building Design and Construction Conference, February 2013.

Leveling Wood Floors by Jacking – Experiences in a NYC Townhouse Renovation, Architectural Engineering Institute Conference, State College, PA, April 4, 2013

August 23, 2011 Magnitude 5.8 Virginia Earthquake – An Engineering Perspective, presented by Jim E. Beavers, Matthew R. Eatherton, Ramon E. Gilsanz, James M. Ricles, and Ying-Cheng Lin, 15th World Conference on Earthquake Engineering, Lisbon, Portugal, September 28, 2012

Sierra Bonita Mixed-Use Affordable Housing, ASCE Metropolitan Section: Structures Group Seminar Series 2012, New York, NY, April 26, 2012

Blast Resistant Steel Design, North American Steel Construction Conference, Dallas, Texas, April 19, 2012

Evaluation and Design of New and Existing Buildings Against Disproportionate Collapse, presented by Ramon Gilsanz and Mehrdad Sasani, 2012 Structures Congress, Chicago, IL, March 31, 2012

The Structural Engineers' Response at the World Trade Center Site in New York City Following the Attacks of 9/11/2001, 13th U.S.-Japan Workshop on the Improvement of Structural Design and Construction Practice Details, Hawaii, April 21, 2010

Simple Nonlinear Static Analysis Procedure for Progressive Collapse Evaluation by Ramon Gilsanz and Wenjun Guo, Steel Building Symposium: Blast and Progressive Collapse Resistance for the AISC and SINY, New York, NY, December 4, 2003

New York City Department of Buildings, World Trade Center Building Code Task Force Public Forum, New York, NY, August 13, 2002

National Institute of Standards and Technology, U.S. Department of Commerce, Webcast to Gather Comments and Suggestions Related to the Scope of the Pending Building and Fire Safety Investigation of the World Trade Center Disaster, from New York Marriott East Side, New York City, Public Comments III, June 24, 2002.

Juror for the 2004-2006 American Institute of Steel Construction (AISC) T.R. Higgins Award, New York Construction Best of 2003 Awards, and the American Society of Civil Engineers (ASCE) Shortridge Hardesty Award for over 5 years.

PUBLICATIONS

ATC Mw7.1 Puebla-Morelos Earthquake Reconnaissance Observations Part I: Seismological, Geotechnical, Ground Motions, Site Effects, and GIS Mapping, by: Guillermo Diaz-Fanas, Evangelia Garini, Olga-Joan Ktenidou, George Gazetas, Themis Vaxevanis, Yun Jennifer Lan, Jon Heintz, Xin Ma, Evangelia Korre, Rodolfo Valles-Mattox, Andreas Stavridis, Insung Kim, Laura Hernandez-Bassal, Esteban Anzola, Russell Berkowitz, Saif Hussain, Afshar Jalalian, Homero Carrion, Virgilio Dominguez Maldonado, Andres Gama Contreras, Sergio R. Almanza Camacho, Rene F. Bojorquez Hernandez, Victor A. Ruiz Medina, Fernando Vallejo Martinez, Ayse Hortacsu, Ramón Gilsanz, Sissy Nikolaou, EERI, December 2020

ATC Mw7.1 Puebla-Morelos Earthquake Reconnaissance Observations Part II: Structural Observations and Instrumentation, by: Yun Jennifer Lan, Andreas Stavridis, Insung Kim, Guillermo Diaz-Fanas, Jon Heintz, Laura Hernández-Bassal, Esteban Anzola, Russell Berkowitz, Saif Hussain, Afshar Jalalian, Evangelia Garini, Olga-Joan Ktenidou, Seyedsina Yousefianmoghadam, Homero Carrion, Rodolfo Valles-Mattox, Virgilio Dominguez Maldonado, Andres Gama Contreras, Sergio R. Almanza Camacho, René F. Bojórquez Hernández, Victor A. Ruiz Medina, Fernando Vallejo Martinez, Themis Vaxevanis, Ayse Hortacsu, Sissy Nikolaou, Ramon Gilsanz, EERI, December 2020

Deflection of Flat Plate Slabs, Cathy I-Chi Huang, David E. Hoy, Yun Jennifer Lan, Camille de Romémont, and Ramon E. Gilsanz, *Concrete International*, August 2020, pages 36-41.

Lateral Load Resisting Facades, M. Lopez, C. Bai, J. Blanchfield, D. Kazibwe, R.Gilsanz, P. Murray, IASS 60th Anniversary Symposium Form and Force 2019, Barcelona, Spain, 7 October 2019.

Playing to the Base, John Hinchcliffe, Joe Mugford, and Ramon Gilsanz, *Modern Steel Construction*, February 2018.

75 Rockefeller Plaza: Transfer Girder Constructability, By John Hinchcliffe, Joe Mugford and Ramon Gilsanz, *STRUCTURE Magazine*, January 2018

Evaluation and Performance of Taiwan Housing and Schools in the Kaohsiung / Meinong Earthquake, Ramon Gilsanz, Cathy Huang, Jessica Mandrick and Joe Mugford (GMS/New York), Shyh-Jiann Hwan and Tsung-Chih Chiou (NCREE/Taiwan), and Mehmet Çelebi (USGS/California), 16th US-Japan-New Zealand Workshop on the Improvement of Structural Engineering and Resiliency, Nara, Japan, June 27-29, 2016

Estimating Collapse Capacity of Steel Moment Connections Subjected to Column Removal, by Ramon Gilsanz and Akbar Mahvashmohammadi, Eighth International Workshop on Connections in Steel Structures, AISC, Boston, MA, May 25, 2016

GEER/ATC Earthquake Reconnaissance Report 2016 Muisne, Ecuador Earthquake, by Alvarado, A., Alzamora, D., Antonaki, N., Arteta, C., Athanasopoulos-Zekkos, A., Bassal, P., Caicedo, A., Casares, B., Davila, D., Diaz, V., Diaz-Fanas, G., Gilsanz, R., González, O., Hernandez, L., Kishida, T., Kokkali, P., López, P., Luque, R., Lyvers, G.M., Maalouf, S., Mezher, J., Miranda, E., Morales Moncayo, E., Nikolaou, S., O'Rourke, T., Ochoa, I., O'Connor, J.S., Ripalda, F., Rodríguez, L.F., Rollins, K., Stavridis, A., Toulkeridis, T., Vaxevanis, E., Vera-Grunauer, X., Villagrán León, N., Wood, C., Yepes, H., Yepez, Y., GEER, 2016

A Need for Speed, Coordinating Fast Paced Urban Construction, by Ramon Gilsanz, Philip Murray, Gary Steficek and Petr Vancura, *STRUCTURE Magazine*, September 2015, p.51-56

Understanding Seismic Design through a Musical Analogy, by Ramon Gilsanz and Petr Vancura, *STRUCTURE Magazine*, March 2015, p.14-19

Learning from Structural Success Rather than Failures, by Sissy Nikolaou and Ramon Gilsanz, *STRUCTURE Magazine*, March 2015, p. 25-31

Design of a High-Rise Steel Building to Resist Disproportionate Collapse, R. Gilsanz, E. Kim, P. Murray, K. Rubenacker, 37th IABSE International Symposium, Madrid, Spain, 3-5 September 2014

GEER/EERI/ATC Earthquake Reconnaissance January 26th/February 2nd 2014 Cephalonia, Greece Events, by Sissy Nikolaou, Dimitris Zekkos, Dominic Assimaki, and Ramon Gilsanz (Eds.), GEER, 2014

AISC Steel Design Guide 26: Design of Blast Resistant Structures, by Ramon Gilsanz (lead author), Ronald Hamburger, Darrell Barker, Joseph L. Smith, and Ahmad Rahimian, AISC, 2013

Cool Carousel, by Carl Zanier and Ramon Gilsanz, *Modern Steel Construction*, August 2013, p. 48-49.

Investigation for the Removal of Steel Tie Rods in a Historic Segmental Arch Floor System, by Ramon Gilsanz, Jennifer Lan, and Michael Lo, presented at 1st Annual Residential Building Design and Construction Conference, 2013. Also presented at 2013 Structures Congress in Pittsburgh, May 2013

Sierra Bonita: Innovative Use of Long Span Metal Deck Slabs and Shored Construction, by Joseph Mugford, Karl Rubenacker, John Lantry, and Ramon Gilsanz, presented at 1st Annual Residential Building Design and Construction Conference, 2013

The Need for Expansion Joints in Residential Flat Plate Structures in New York City, by Jennifer Lan, Ramon Gilsanz, published in "Issues on Computational Mechanics and Civil Engineering" in honor of Professor Enrique Alarcon, Madrid, Spain, November 2012

The Magic of Pomona Skyspace, by Ramon Gilsanz and Anders Carlson, *STRUCTURE Magazine*, May 2011, p. 53

Reconsidering Fire Resistance Requirements for Tall Buildings, by Ramon Gilsanz, *STRUCTURE Magazine*, February 2008, p. 41-44

Single Point of Failure: How the Loss of One Column May Have Led to the Collapse of WTC 7, by Ramon Gilsanz and Willa Ng, *STRUCTURE Magazine*, November 2007, p. 42-45

NIST Report on the Federal Building and Fire Safety Investigation of the World Trade Center Disaster, Solicitation Number SB1341-03-R-0028, 2005

World Trade Center Building Performance Study: Data Collection, Preliminary Observations, and Recommendations, Federal Insurance and Mitigation Administration of the Federal Emergency Management Agency – Book 403, May 2002

Principles for the Rebuilding of Lower Manhattan, New York New Visions, February 2002

Exacting Renovation, by Karl Rubenacker, Sukru Tirnakli and Ramon Gilsanz, *Civil Engineering Magazine*, September 1999, pp. 58-61.

Structural Surgery, by Ramon Gilsanz and Sukru Tirnakli, *Civil Engineering Magazine*, February 1999.

Raising a Structural Steel Framed Roof, by Ramon Gilsanz and Sukru Tirnakli, presented at the 1997 Structures Congress, Portland, Oregon, April 13, 1997

Carving New Theaters, by Ramon E. Gilsanz, *Modern Steel Construction*, September 1996

Start the Presses! by Ramon E. Gilsanz, *Civil Engineering Magazine*, April 1996

Vertebral Size in Elderly Women with Osteoporosis by Vicente Gilsanz, M. Luiza Loro, Thomas F. Roe, James Sayre, Ramon Gilsanz, and Eloy Schulz, *The American Society for Clinical Investigation, Inc.*, Volume 95, May 1995

Gender Differences in Vertebral Body Sizes in Children and Adolescents by Vicente Gilsanz, M. I. Boechat, Thomas F. Roe, M. Luiza Loro, James Sayre, W. G. Goodman, and Ramon Gilsanz, *Radiology*, National Center for Biotechnology Information, Volume 190, Issue 3, March 1994

Shape Finder, by Ramon Gilsanz and Anders Carlson, presented at the 1992 Structures Congress, San Antonio, TX, April 13, 1992

Optimization in Building Design, by Ramon Gilsanz and Anders Carlson, International Conference on Computer Aided Optimum Design of Structures, Boston, MA, June 1991

Approximate Plastic Modulus of Wide Flange Beam Sections, by Ramon Gilsanz, American Institute of Steel Construction, *Engineering Journal*, First Quarter 1990. Vol 27, num 1.

Cable Stayed Bridge under Different Degrees of Anchoring Discussion & Closure, by Ramon Gilsanz and J.M. Biggs, American Society of Civil Engineers, *Journal of the Structural Division*, April 1984

Cable Stayed Bridge under Different Degrees of Anchoring, by Ramon Gilsanz and J.M. Biggs, American Society of Civil Engineers, *Journal of the Structural Division*, January 1983

POSITIONS IN UNIVERSITIES

PARSONS UNIVERSITY

Professor of Structures in Architecture Department

New York, NY
Jan 1992 to June 1999

COLUMBIA UNIVERSITY

Adjunct Professor of Structures in Architecture Department

New York, NY
Fall 1996