



Bill Baker is the partner in charge of Structural and Civil Engineering for the Chicago office of Skidmore, Owings & Merrill. Since joining the firm in 1981, Bill has worked on a broad range of engineering projects including designing structural systems for supertall buildings to smaller, specialized structures.

Joined SOM: 1981

Education

University of Illinois, Master of Science in Civil Engineering, 1980

University of Missouri, Bachelor of Science in Civil Engineering, 1975

Professional Registrations

Registered Professional Engineer in Illinois, Indiana, Kansas, Louisiana, Maine, Michigan, Missouri, Mississippi, New York, New Hampshire, New Jersey, North Carolina, Ohio, Oklahoma, Oregon, Vermont, Alabama, Arkansas, Connecticut, District of Columbia, Florida, Georgia, Pennsylvania, South Carolina, Tennessee, Virginia, West Virginia, Nebraska, Colorado, Rhode Island and Delaware

Licensed Structural Engineer in Illinois, California, Massachusetts, Nevada and Arizona

Licensed Civil Engineer in California and Nevada

Professional Affiliations

Fellow, American Society of Civil Engineers (ASCE)
Fellow, Institution of Structural Engineers (IStructE)
American Concrete Institute (ACI)
American Institute of Steel Construction (AISC)

UNITED STATES PROJECTS

GSA Denver Office Building, 4-story, 200,000 sf, LEED Certified office building with a campus-style design and enclosed interior courtyards, 2009, Denver, Colorado

University of North Carolina Genome Science Laboratory Building, Genome science research laboratory, renovations for 16,000-ton chiller plant, 740-car parking deck, classrooms, campus planning and infrastructure upgrade, 210,000 gsf, 2011 Chapel Hill, North Carolina

Trump International Hotel & Tower, Architectural design and structural engineering for 2.6 million sf, 92-story (1,361 ft) mixed use tower comprised of luxury residential, hotel, health club, retail, parking and riverfront park on prominent site along the Chicago River, 2008, Chicago, Illinois

Virginia Beach Convention Center, Master planning and architectural design for a 516,522 sf facility which includes a 150,000 sf exhibit hall, a 30,000 sf ballroom and 25,000 sf of meeting space, 2007, Virginia Beach, Virginia

Darwin D. Martin House Visitor's Center, 15,000 sf facility with classrooms and theater designed by architect Toshiko Mori for visitor's center at Frank Lloyd Wright designed residence, 2008, Buffalo, New York

Jesse Brown Medical Center, 200-bed inpatient expansion to the existing VA Westside Medical Center including new Departments for ICU, Surgery and Emergency Medicine. The 8-story, 240,000 sf building achieves a creative allocation of space, establishing a new entry sequence and clearly articulated wayfinding on the tight, urban site, Chicago, Illinois, 2007

Skyscraper Museum, 5,000 square foot museum in Battery Park City to house artifacts and information on the design and construction of tall buildings, 2003, Battery Park City, New York

GM Renaissance Center, Master plan and remodeling for corporate occupancy of 5.5 million sf (511,000 sm) mixed-use development including office facilities, hotel, retail, museum and parking, 2003, Detroit, Michigan

Millennium Park, Master planning and architectural design for 16.5-acre performance park, including stage house, artistic support spaces, public park and multi-modal transit facility, 2000, Chicago, Illinois

Riverport Casino Center, Master planning, architectural and engineering design services for riverboat casino complex including entertainment facilities, a 300-room hotel, parking, and surrounding site improvements, 1997, Maryland Heights, Missouri

Professional Affiliations Cont.

Council on Tall Buildings and Urban Habitat (CTBUH), Trustee
 Earthquake Engineering Research Institute (EERI)
 International Association for Bridge and Structural Engineering (IABSE)
 International Association for Shell and Spatial Structures (IASS)
 National Council of Examiners for Engineering and Surveying (NCEES)
 Structural Engineers Association of Illinois (SEAOI)
 Structural Engineers Association of New York (SEAONY)
 Structural Engineers Association of Northern California (SEAONC)
 Structural Stability Research Council (SSRC)
 University of Illinois President's Council

World Trade Center 9/11, assessment of building damage and documentation of existing building structural drawings; assisted the Structural Engineers of New York City in organizing and coordinating a program for the structural engineering assessment of structures adjacent to the site and consulted with the four main general contractors assigned to the task of debris removal, New York, New York 2001

Kings County Hospital Center, Phase II, Architecture and engineering design for a hospital facility on the Kings County Campus, new 234,000 sf, 7-story hospital and renovation of old facility, Brooklyn, New York, 2003

Newark Airport, Continental Airlines Terminal C-3, Renovation of the existing terminal building; new construction including a concourse, 21 gates, a baggage handling facility and all airside systems; and renovation and construction of new terminal roadway systems, 2001, Newark, New Jersey

555 West Monroe, 450,000 sf office building, also the corporate headquarters for Quaker, 2002, Chicago, Illinois

Memorial Sloan Kettering, architectural and engineering design services for 684,000 sf cancer center, 2003, New York, New York

Mt. Sinai, School of Medicine, architectural and engineering design services for 425,000 sf laboratory renovation and new research building, 2009, New York, New York

7 South Dearborn, Concept design and engineering for proposed 110-story office, retail and residential tower, 2002, Chicago, Illinois

Raspberry Island, Schubert Club Bandshell, collaboration with artist James Carpenter, 2002, St. Paul, Minnesota

Millennium Park Pedestrian Bridge, Structural engineering design for pedestrian link across Columbus Drive by architect Frank O. Gehry, 2002, Chicago, Illinois

Millennium Park Bandshell, Structural engineering design for bandshell designed by architect Frank O. Gehry, 2001, Chicago, Illinois

Metropolitan Financial Corporation, Design of new 7-story, 200,000 sf headquarters building, Mayfield Heights, Ohio, 2000

Washington University Psychology Building, Laboratory and animal facility, Department of Psychology, 100,000 sf (9,300 sm), 1996, St. Louis, Missouri

Lake Calumet Airport, Construction feasibility study for third Chicago area airport, 1993, Chicago, Illinois

USG Building, 35-story office tower and regional headquarters, 1 million sf (92,900 sm), 1992, Chicago, Illinois

Spiegel Corporate Headquarters, Structural steel 12-story office tower and national headquarters, 640,000 sf (59,500 sm), 1992, Downers Grove, Illinois

One North Franklin, 35-story high-rise office, 700,000 sf (65,100 sm) utilizing a reinforced concrete shear wall system and a structural steel gravity perimeter system, 1991, Chicago, Illinois
 Holy Angels Church, Church with exposed structure, 1991, Chicago, Illinois

AT&T Corporate Center, 63-story office tower and regional corporate headquarters, 1.7 million sf (162,600 sm), 1990, Chicago, Illinois

MPEA Study, Master plan and design guidelines for expansion of convention center, retail arcade and stadium, 1990, Chicago, Illinois

500 South LaSalle, Feasibility study and preliminary design of a series of six buildings, 1990, Chicago, Illinois

303 West Madison, 28-story office tower, 400,000 sf (37,200 sm), 1988, Chicago, Illinois

McCormick Place Exposition Centre North Expansion, 2-story exposition center building, 1.8 million sf (167,300 sm), 1987, Chicago, Illinois

One Financial Place, 40-story office building, METRA LaSalle Street Station and Midwest Stock Exchange, 1985, Chicago, Illinois

Sears Tower Revitalization Project, New entrances and revisions of circulation and retail space, 1985, Chicago, Illinois

Chicago World Trade Center, Proposed 169-story multi-use complex, 1981, Chicago, Illinois

SELECTED INTERNATIONAL PROJECTS

International Treaty Organization Headquarters, Architecture, interior design and structural engineering services for 172,000 sm of offices, conferencing and recreational facilities, which will be used for the accommodation of the 26 member countries, 2010, Brussels, Belgium

Pearl River Tower, Architecture, structural engineering, MEP engineering, sustainable design and landscaping for the 71-story CNTC Guangdong Tobacco Corporation headquarters. This 214,000 sm building proposes to be the first supertall tower to attempt to produce as much, or more, energy than it consumes. Every aspect of the 309-meter tower is designed to harvest wind and solar energy, 2010, Guangzhou, China

Chengdu Plot 7 & 8, Architecture, mechanical engineering and structural engineering for a 25.000 sm mixed-use development including two 42-story residential towers and a 28-story office building set on a four-story retail mall, Ongoing, Chengdu, China

Zhongshan International Exhibition Center and Trade Mart, Architecture, electrical, mechanical, plumbing, civil, and structural engineering for a new town center complex including exhibition meeting space, administrative space, VIP suites, a central plant, building support areas, and a grand plaza accommodating civic celebrations, special events and outdoor exhibitions, 2008, Zhongshan, China

Lotte Super Tower, Architecture for 550 m high tower located in southeastern Seoul, 2011, Seoul, Korea

Qatar Petroleum, Architecture for a corporate headquarters in Doha, Qatar

Rolex Tower, 61-story mixed-use project consisting of market-rate rental apartment units, office, commercial and retail space with a 12-story detached parking structure, 2009, Dubai, United Arab Emirates

Infinity Tower at Dubai Marina, 75-story (300 m) residential tower, 2008, Dubai, United Arab Emirates

ARB Bank Headquarters, Architecture and interior design for bank headquarters conceived as a series of earth-forms within an active farmland that will change with seasons, 2009, Riyadh Saudi Arabia

Nanjing Guozi Greenland Financial Center, Architectural design and engineering for 3.5 million sf mixed use super tall building including office, hotel service apartments and commercial functions, 2007, Nanjing, China

Burj Dubai, Supertall mixed use tower comprising residential, commercial, hotel, and retail spaces, 2009, Dubai, United Arab Emirates

Suzhou International Expo Center, Architectural design and engineering for a 2.8 million sf convention center and exhibition facility, 2006, Suzhou, China

Zoetermeer, collaboration with Renee Stevens of Perkins, Pride, Kennedy & Stevens on a 165 meter, 45-story office tower, 2005, Rotterdam, The Netherlands

MYE Toronto, Architectural design and engineering for residential complex with civic court, townhouses and two towers, 2003, Toronto, Ontario

Tower Palace III, 73-story, 2-million sf residential tower for the Samsung Group, 2003, Seoul, Korea

BankBoston Headquarters, 30-story, 845,000 sf (78,500 sm) international headquarters for BankBoston, 2000, Sao Paulo, Brazil

Hamilton House, Architecture and structural engineering services for 150,000 sf (14,000 sm) office building, ongoing, London, UK

New Providence Wharf, Architectural design and planning for mixed use residential, hotel and office development, 1,800,000 sf (170,000 sm), 2003, London, UK

Caroone House, Architectural design for 130,000 sf office building, on-going, London, UK

Changi Airport, Terminal 3, Full engineering services for 750,000 sf exposed steel roof, 2001, Singapore

Citibank Headquarters, 10-story corporate headquarters including offices, a data center, treasury, telecommunications, cash

management, project finance operations, and financial control, 2000, Seef, Bahrain

Korea World Trade Center, Expansion of 6.5 million sf (604,000 sm) mixed-use complex including convention and exhibition center, 41-story, 1.2 million sf (110,200 sm) office building, 667-room luxury hotel, 2-story below grade retail mall and urban entertainment complex, and 3-level parking for 3,450 cars and buses, 2000, Seoul, Korea

COEX International Hotel, 29-story component of the Korean World Trade Center. The hotel is comprised of 650 guest rooms, a health club, a ballroom, meeting rooms, a wedding chapel, conference and business centers, retail space, restaurants and parking for 600 cars. Hotel facilities are directly linked with the new convention center, 2000, Seoul, Korea

Investcorp Bahrain, Schematic Design and Design Development for 3,500 square meter office addition, 2000, Manama, Bahrain

Kuwait Police Academy, Kuwait Police College, College campus for the security forces of Kuwait. The facility is situated on 75 acres of land and will serve 1,200 students. The new campus will be used for training officers while the existing campus will serve as the soldier's and sergeant's training facility, 2000, Kuwait City, Kuwait

Plaza Rakyat, proposed 6.6 million sf (613,000 sm) mixed-use development and transportation center including 77-story office tower, 1.7 million sf (158,000 sm) shopping center, 20-story, 415-room four-star hotel, 44-story, 315-unit service apartment, below-grade transportation terminal for 40 buses and 138 taxis, parking for 2,300 cars, 1999, Kuala Lumpur, Malaysia

Jin Mao Tower, Architectural and engineering services for 88-story, 3 million sf (279,000 sm) multi-use complex including office, hotel and retail, 1998, Shanghai, The People's Republic of China

Kowloon MTR Tower, Concept design and design brief for 4,300 sf (400 sm) tall, 2 million sf (188,000 sm) tower with offices and a five-star hotel, 1997, Hong Kong

Russia Tower, Concept design for 125-story, high-rise office tower, 1996, Moscow, Russia

KAL Operations Center, Aircraft maintenance hangar and office building featuring a 300 foot x 600 foot (90 meter x 180 meter) clear span roof structure, Kimpo Airport, 1997, Seoul, Korea

Broadgate, Master plan, architecture and engineering for 4 million sf (371,700 sm) commercial mixed-use development with office, retail, park, railway station and infrastructure development, 1987-1992 at Liverpool Station, London, England

Broadgate Phase 11, Exchange House, 600,000 sf (56,000 sm) office building with heroic 255-foot- (78- meter-) span arched building over railroad air rights at Liverpool Street Station; exterior arches are completely exposed on building periphery, 1990, London, England

201 Bishopsgate, Multi-use development with office, retail, parking and landscape, 450,000 sf, 2008, London, England