



RICHARD B. GARLOCK, P.E.

Partner

Mr. Garlock works on projects in the role of Project Director and Partner-in-Charge. He guides the efforts of our Project Manager in the development of the structural design and in the coordination of structural engineering services with the Owner, Architect, Services Engineer and Contractor. As LERA's Signatory Director to the SE2050 Carbon Reduction Program, he oversees and implements the firm's sustainable design initiatives, with the aim of reducing the carbon footprint of LERA's structures and promoting sustainable design and construction practices industry-wide.

PROFESSIONAL EXPERIENCE

LERA Consulting Structural Engineers
1993 to Present

REGISTRATION

Professional Engineer – NY, NJ, PA, VA & OH (TX pending)

EDUCATION

Lehigh University
M.S. (Civil Engineering), 1993

Syracuse University
B.S.C.E. (Civil Engineering), 1990

TEACHING

Visiting Lecturer, Department of Civil and Environmental Engineering, Princeton University, 2005 to Present

HONORS & ACTIVITIES

Signatory Director, Structural Engineers 2050 Commitment Carbon Reduction Program (SE2050)

Juror, CTBUH Awards 2020

Structures Specialist, State of New Jersey Office of Emergency Management, Urban Search & Rescue (NJ TF1)

- Tropicana Parking Garage, Atlantic City, NJ
- PETCO Gas Explosion, Eatontown, NJ
- Apartment Building, Hackensack, NJ

Member, Structural Engineers Association of New York (SEAoNY)

Member, American Society of Civil Engineers (ASCE)

SEAoNY Speed Mentor, May 2019

SPECIALIZED TRAINING

Urban Search & Rescue Structure Specialist I & II

ATC 20-1 Post-Earthquake Safety Evaluation of Buildings

Self Contained Breathing Apparatus Qualified

Confined Space Entry

PEER REVIEWS

15 Hudson Yards, *New York, NY*

1 World Trade Center, Freedom Tower, *New York, NY*

2 World Trade Center, *New York, NY*

3 World Trade Center, *New York, NY*

7 World Trade Center, *New York, NY*

AOL Time Warner Center, *New York, NY*

225 West 57th Street, *New York, NY*

111 West 57th Street, *New York, NY*

9 DeKalb Avenue, *Brooklyn, NY*

Queens Plaza Park, *Long Island City, NY*

23 Park Row, *New York, NY*

76 11th Avenue, *New York, NY*

Torre Espacio, *Madrid, Spain*

OFFICE/MIXED-USE

4 World Trade Center, *New York, NY*

Pacific Park Brooklyn, *Brooklyn, NY*

Media Company Office, 4 World Trade Center, *New York, NY*

Hudson River Trading Office, 4 World Trade Center, *New York, NY*

Hudson River Trading Office, 3 World Trade Center, *New York, NY*

Schuylkill Yards Development, *Philadelphia, PA*

3151 Market Street, *Philadelphia, PA*

Confidential Office Development, *Northeastern United States*

Supertall Tower, *Malaysia*

United Nations Consolidated Building, *New York, NY*

Sentra BDNI, *Jakarta, Indonesia*

RESIDENTIAL/HOTEL

550 West 41st Street, *New York, NY*

520 West 41st Street, *New York, NY*

Pacific Park Brooklyn, *Brooklyn, NY*

Tower 1, *Jersey City, NJ*

Tower 2, *Jersey City, NJ*

Schuylkill Yards Development, *Philadelphia, PA*

West Street Residential Project, *New York, NY*

Debrosses Street Loft, *New York, NY*

Tradewinds Residential Tower, *Kuala Lumpur, Malaysia*

KLCC Residential Tower Land N, *Kuala Lumpur, Malaysia*

Grange Court, *Singapore*

RENOVATIONS/RETAIL

Nordstrom Flagship Store, 1776 Broadway, *New York, NY*

Prada SoHo, 575 Broadway, *New York, NY*

World Trade Center Master Plan – Plaza Windscreen, *New York, NY*

World Trade Center Tenant Modifications, *New York, NY*

7WTC Adjacent Slurry Wall Stabilization, *New York, NY*

HEALTHCARE/RESEARCH

3151 Market Street, *Philadelphia, PA*

Schuylkill Yards Development, *Philadelphia, PA*

PAPERS & TALKS

Presenter, "Looking at the Past and Into the Future: Structural Design Innovations for Tall Buildings," CTBUH World Congress, Chicago, IL, *October 2019*

Co-Presenter, "What Lies Beneath: Is NYC Earthquake-Ready?" CTBUH NY, New York, NY, *May 2019*

Presenter, "World Trade Center | Tower 4: Cultivating the Design Solution," NASCC: The Steel Conference, San Antonio, TX, *March 2017*

Author, "Sustainable Design: A Structural Perspective," Int'l Roundtable on Engineering, Construct Canada, *2005*

Co-Author, "Considerations for Retrofit of Existing Steel Buildings for Resisting Blast and Progressive Collapse," AISC Blast Design Symposium, New York, NY, *2003*

CULTURAL/PERFORMING ARTS

Rock and Roll Hall of Fame & Museum, *Cleveland, OH*

New York Hall of Science Addition, *Queens, NY*

William J. Clinton Presidential Center, *Little Rock, AR*

Princeton University, Lewis Center for the Arts – Peer Review & Value Engineering, *Princeton, NJ*

Gagosian Gallery Renovation, *New York, NY*

EDUCATION

Princeton University, Butler College, *Princeton, NJ*

Princeton University, Friend Center for Engineering, *Princeton, NJ*

Princeton University, School of Architecture, *Princeton, NJ*

Princeton University, E-Quad Renovations, *Princeton, NJ*

Columbia University, Alfred Lerner Hall – Ramps and Glass Wall (Contractor's Engineer), *New York, NY*

University Residential Tower, *New York, NY*

NYC SCA, PS 166 Modernization, *New York, NY*

NJ SDA, Roosevelt Elementary School, *Passaic, NJ*

NJ SDA, Central Avenue Elementary School, *Passaic, NJ*

NJ SDA, Henry Howe Elementary School, *Passaic, NJ*

NJ SDA, Main Street Elementary School, *Passaic, NJ*

NJ SDA, Thomas Jefferson Elementary School, *Passaic, NJ*

CONVENTION CENTERS/ARENAS/THEATERS

Baltimore Convention Center Expansion, *Baltimore, MD*

SCULPTURES

Richard Serra sculpture, *Gagosian Gallery – 1999/2000*

Chris Burden sculpture, *Gagosian Gallery – 2000*

INVESTIGATIONS

Baseline Performance of the World Trade Center Towers, NIST WTC Investigation, *Washington, DC*

SECURITY PROJECTS

Regional Justice Center, *Las Vegas, NV*

Federal Facility Security Enhancement, *Building 1*

Federal Energy Regulatory Commission, *Washington, DC*

EMERGENCY RESPONSE

KL Sentral, *Kuala Lumpur, Malaysia*

World Trade Center Bombing – Repairs and Reconstruction, *New York, NY (Field Engineer)*

World Trade Center Recovery, *New York, NY (Field Engineer)*

AOL Time Warner Scaffolding Stabilization, *New York, NY (Contractor's Engineer)*