PERSONNEL QUALIFICATIONS

James R. Triano | Senior Principal and East Region Director

EDUCATION

- University of Connecticut
  - Bachelor of Science, Civil Engineering, 1989
  - Master of Science, Structural Engineering, 1990

PRACTICE AREAS

- Building Envelope Assessment
- Difficult Access Inspections
- Masonry Deterioration
- Repair and Rehabilitation Design
- Water Penetration Testing
- Windows and Curtain Walls

REGISTRATIONS

- Civil Engineer in MA and NV
- Professional Engineer in CT, MI, NJ, NY, and PA

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- ASTM International
- Structural Engineers Association of New York

CONTACT

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EXPERIENCE

James Triano has expertise investigating and designing repairs to address problems with nearly all types of historic and contemporary building facades. Since joining WJE in 1991, Mr. Triano has investigated serviceability and durability issues with several hundred building structures. His typical projects involve facade failures, moisture infiltration, and corrosion and cracking of concrete and masonry structures. Mr. Triano has investigated distress in most types of cladding systems, including brick, terra cotta and stone masonry, EIFS, stucco, composite wall panel systems, and glass/aluminum curtain walls.

Mr. Triano has also been involved in the investigation of partial building collapses resulting from overloading and/or material degradation. He has developed plans and specifications for repairs and has performed construction period services. His experience also includes nondestructive testing, such as strain relief testing and in situ strength testing of masonry walls, structural and water penetration testing of curtain walls, and strain gage instrumentation and data acquisition.

Mr. Triano has authored a number of industry-related articles, including "Durability of Concrete Made with Municipal Solid Waste Fly Ash" for ASCE's *Journal of Materials in Civil Engineering* and "Inspections–The Outside Story" for *Maintenance Solutions* magazine.

REPRESENTATIVE PROJECTS

Building Envelope Assessment

- CityPlace I - Hartford, CT: Evaluation of granite and aluminum curtain wall, copper roof, and lobby atrium at tallest building in CT
- State House Square - Hartford, CT: Evaluation of terra cotta and limestone facade
- Paul Mellon Center for the Performing Arts, Choate Rosemary Hall School - Wallingford, CT: Investigation of water penetration and design replacement of sloped glazing and gallery
- Columbia University - New York, NY: Evaluation of facades for more than sixty buildings and preparation of reports for compliance with New York City's Local Law 11 facade inspection ordinance
- Omni Parker House - Boston, MA: Investigation of distress in exterior masonry walls

Repair and Rehabilitation Design

- New York Stock Exchange - NY: Window replacement project
- 2 Park Avenue - New York, NY: Evaluation and repair design of historic masonry facade
- 745 Fifth Avenue - New York, NY: Evaluation and repair design of historic masonry facade
- New York Life Building - NY: Evaluation and repair design of historic masonry facade
- Lord & Taylor - New York, NY: Window replacement project
- Bell Telephone Building - Philadelphia, PA: Design repairs for exterior masonry restoration