PERSONNEL QUALIFICATIONS

Alexandar J. Mlynarczyk | Associate Principal

EDUCATION

- Lehigh University
  - Bachelor of Science, Civil Engineering, 1998
  - Master of Science, Civil Engineering, 2001

PRACTICE AREAS

- Facade Access
- Failure and Damage Investigation
- Structural Evaluation
- Repair and Rehabilitation Design
- Disaster Response
- Wood Structures
- Facade Assessment
- Structural Analysis/ Computer Modeling
- Nondestructive Evaluation

REGISTRATIONS

- Professional Engineer in DE, NY, and PA

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction
- American Society of Civil Engineers
- Delaware Valley Association of Structural Engineers
- International Concrete Repair Institute

CONTACT

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EXPERIENCE

Since joining WJE in 2000, Alexandar Mlynarczyk has participated in numerous projects involving the investigation, analysis, and repair of deteriorated and distressed structures. He has worked with steel, aluminum, wood, masonry, and concrete structures. Mr. Mlynarczyk's project experience includes performing condition assessments, nondestructive evaluation and field testing, structural analysis, and computer modeling as well as preparation of repair documents. His work has also included investigations of structures damaged by natural and man-made disasters, and for insurance companies to assess the cause and extent of damage to structures and building components. He has particular experience in the design and testing of facade access equipment.

During his graduate studies, Mr. Mlynarczyk worked as a research assistant at the Center for Advanced Technology for Large Structural Systems at Lehigh University. His graduate thesis was the "Experimental Evaluation of Composite Behavior of Precast Concrete Sandwich Panels."

REPRESENTATIVE PROJECTS

Facade Access

- 2 and 3 Bala Plaza - Bala Cynwyd, PA: Design and testing of new facade access systems
- Merck & Company - Boston, MA: Assessment and testing of existing facade access system
- Morris Corporate Center III - Parsippany, NJ: Design and testing of new facade access system
- Walnut Park Plaza - Philadelphia, PA: Design and testing of new facade access system

Failure and Damage Investigation

- 506 Carnegie Center Parking Garage - Princeton, NJ: Investigation of precast concrete parking garage collapse
- University Medical Center of Princeton - Plainsboro, NJ: Investigation of curtain wall damage due to explosion
- Warehouse - Atglen, PA: Investigation of metal storage rack collapse
- Second Reformed Church - Marion, NY: Investigation of building collapse
- IESI Paper Recycling Facility - Jersey City, NJ: Investigation of partial collapse of metal building roof

Structural Evaluation

- Municipal Water Tower - Roosevelt, NJ: Investigation and structural analysis of steel tower structure
- Rusty Palmer Showroom - Honesdale, PA: Investigation of precast concrete sandwich wall panels

Repair and Rehabilitation Design

- CVS Pharmacy - Staten Island, NY: Repair design for foundation settlement
- Cherry Hill Towers Parking Garages - Cherry Hill, NJ: Investigation and repair design for strengthening concrete slabs
- Horizon NJ Health Parking Garage - Newark, NJ: Investigation and design of repairs to structural steel framing and concrete slabs
- Morris Corporate Center III - Parsippany, NJ: Investigation and design of parking deck repairs, including waterproofing membrane
- Salvation Army Retired Officers Apartments - Asbury Park, NJ: Investigation and repair design for masonry facades and concrete balconies

Disaster Response

- Various Locations in NJ, NY, and PA: Damage assessments following Hurricane Irene and Hurricane Sandy
- Major Retail Store Chain - Various Locations, Northeast U.S.: Emergency investigations of roof snow loads
- Various Locations, US: Design of temporary shoring to stabilize damaged structures

Wood Structures

- Major Restaurant Chain - CT, NJ, and NY: Investigation, analysis, and repair of plate-connected metal trusses
- Madison Gardens Condominiums - Hoboken, NJ: Investigation of fire-damaged wood framing
- Stevenson Lumber - Stevenson, CT: Investigation, analysis, and repair design of wood bowstring trusses
- Various Locations, US: Investigation of failures of wood roof structures due to snow loading