



#### EDUCATION

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

#### PRACTICE AREAS

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

#### REGISTRATIONS

- Professional Engineer in DE, NY, and PA

#### PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction (AISC)
- American Society of Civil Engineers (ASCE)

#### 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 work on structures damaged by natural and man-made disasters, including numerous investigations for insurance companies to assess the cause and extent of damage to structures and building components.

During his graduate studies, Mr. Mlynarczyk worked as a research assistant at the Center for Advanced Technology for Large Structural Systems (ATLSS) at Lehigh University. His graduate thesis was the "Experimental Evaluation of Composite Behavior of Precast Concrete Sandwich Panels." As an undergraduate, Mr. Mlynarczyk was employed by Parsons Brinckerhoff Quade and Douglas, Inc., in Herndon, Virginia, as a participant of Lehigh University's co-op program.

#### REPRESENTATIVE PROJECTS

##### Failure Investigation

- 506 Carnegie Center Parking Garage - Princeton, NJ: Investigation of precast concrete parking garage collapse
- 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
- Deal Lake Tower - Asbury Park, NJ: Repair design for reinforced concrete balconies
- Cherry Hill Towers Parking Garages - Cherry Hill, NJ: Investigation and repair design for strengthening concrete slabs
- Morris Corporate Center III - Parsippany, NJ: Design of building facade access anchors; investigation and design of parking deck repairs including waterproofing membrane

#### Disaster Response

- Various Locations in NJ, NY, and PA: Damage assessments following Hurricane Irene and post-tropical storm Sandy
- Major Retail Store Chain - Various Locations, Northeast U.S.: Emergency investigations of roof snow loads

#### Wood Structures

- Major Restaurant Chain - NJ, NY, and CT: 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

#### Facade Recladding Design

- Asbury Park Design Center - Asbury Park, NJ: Design facade attachments to steel structure and structural analysis of new curtain wall
- Givaudan Fragrances - East Hanover, NJ: Design facade attachments to steel structure and structural analysis of new curtain wall
- Hancock Square Building K - Philadelphia, PA: Design facade attachments to new concrete structure and structural analysis of curtain wall