



## Matthew Pavelchak, PE

### Principal

#### Diagnostics

Matt is a Principal in our Diagnostics Group with significant experience working with clients to lead multidisciplinary teams to solve complex issues in the built environment. He has significant experience serving as a trusted advisor for clients and working to identify causation as well as short and long term remedial options for operational challenges with existing structures. Matt has worked on a number of retractable roof facilities including the Rogers Centre in Toronto and Chase Field in Phoenix and is knowledgeable of the interplay between mechanization and structural performance on these unique structures as well as the challenges faced by building operators.

#### Education

Master of Science, Civil Engineering,  
Purdue University, 2009

Bachelor of Science, Civil Engineering,  
Rowan University, 2008

#### Registrations

##### Licensed Professional Engineer

Texas 115950

Florida 83868

New York 099757

Louisiana 42807

#### Affiliations

American Concrete Institute

American Society of Civil Engineers

Vibration Institute

#### Publications

*“Use of Instrumentation to Quantify Dynamic Movements of Bridge Substructures,”* Proceedings of the International Bridge Conference in Pittsburgh, Pennsylvania, June 2013, co-authored with M. Williams.

*“Structural Health Monitoring for Damage Detection Under Heavy Construction Loading,”* Proceedings of the 2013 Transportation Research Board Conference in Washington, D.C., January 2013, co-authored with M. Williams.

#### Relevant Project Experience

- **Rogers Centre Roof Modernization and Structural Health Monitoring**, Toronto, CAN
- **Perez Art Museum Canopy Failure Analysis**, Miami, FL
- **Houston Methodist Hospital at Willowbrook – Medical Office Building 2 Roof Tie-Back Design**, Houston, TX
- **SIA Cemex v Geometrica Inc.**, Broceni, Latvia
- **Swinerton v City of Houston**, Houston, TX
- **Hard Rock Stadium, Litigation Support Services**, Miami, FL
- **Grayco Partners LLC v Haynes Whaley Associates, Inc.**, Houston, TX
- **Elk Place LLC v American Casualty Insurance**, New Orleans, LA
- **Barclays Capital Real Estate v HKS et al.**, Vail, CO
- **Medcare v EE Reed et al.**, Houston, TX
- **110 North Wynden Estates Court Roof Investigation**, Houston, TX
- **5800 Richmond Avenue Roofing Review**, Houston, TX
- **6287 Long Drive Roof Review**, Houston, TX
- **Chevron BOB Roof Tieback Testing**, Bellaire, TX
- **Church Insurance Company v. Bellaire Roofing**, Houston, TX
- **David Young Homes v. WBH Heritage Roofing**, Austin, TX
- **Park Laureate Flood Vulnerability/Roof Gutter Review**, Houston, TX
- **Tomball ISD Roof Crackin Investigation**, Tomball, TX
- **Geesbreght v. Texas Tile Roofing, LLC**, Fort Worth, TX
- **712 Main Street Fire Investigation and Structural Repairs**, Houston, TX
- **UT Health School of Public Health Flood Mitigation Project**, Houston, TX
- **Iglesia Cristiana Peña de Horeb Sanctuary Damage Review**, Houston, TX