



Joseph Toniolo

SE, PE

Senior Managing Engineer

Department

Engineering Services

Tel: (847) 372-1574

Email: joseph.toniolo@yaeservices.com

Locations

Chicago, IL

Biography

Joseph is a licensed engineer with over 25 years of engineering and construction experience performing structural evaluations, repair and retrofit design, and construction administration services for existing structures. His investigation and evaluation work has included structural damage and collapses, condition assessments, construction and material defects, and building envelope and water infiltration. He also has litigation support experience, including deposition testimony and arbitrations.

He has performed numerous on-site inspections and evaluations involving damage assessments for long-term deterioration, impact damage, fires, foundation settlement, and natural disasters. He has led forensic investigations on a variety of structure types, including single and multi-family residential, commercial, and parking structures, agricultural facilities, stadiums, religious buildings, educational facilities, government buildings, and industrial facilities. He is versed in a variety of typical construction materials including wood, concrete, steel, and masonry.

Joseph has developed and performed numerous technical presentations for both in-house and outside audiences.

Credentials

- SE | Structural Engineer
- PE | Professional Engineer

Representative Consulting Assignments

- Plate Connected Wood Roof Trusses | Nationwide | Inspection, structural analysis, and repair development to address design, construction, and deterioration deficiencies
- Agricultural Facilities | Midwest States | Inspection and evaluation of tornado damage to wood and steel buildings
- Reinforced Concrete Elementary Schools | Chicago, IL | Structural evaluation, load testing, repair design, and construction administration for repair and rehabilitation projects
- Reinforced and Prestressed Concrete Parking Structures | Chicago, IL | Condition assessment, structural repair design, and construction administration
- Facade Inspections | Midwest and East Coast | Inspection and condition assessment of masonry and glass facades
- Steel Arch Basketball Arena | Moorhead, MN | Structural evaluation and analysis of roof arch framing, load rating, and retrofit design
- Multi-Unit Residential Wood Structures | Nationwide | Evaluation of assessment of long-term damage and construction defects, testing, repair design, and construction administration
- Hurricane Assessments | South Florida | Roof and structural damage assessment of numerous commercial buildings.

Professional Experience

- 2023 - Current | Senior Managing Engineer | YA Engineering Services
- 2021 - 2023 | Project Manager | YA Engineering Services
- 2000 - 2021 | Senior Associate | Wiss, Janney, Elstner Associates, Inc.

Area of Practice

- Building Code Upgrade Review
- Condition Assessment
- Construction Administration
- Damage Assessment
- Failure Analysis
- Repair and Rehabilitation Design
- Structural Analysis

Publications and Presentations

- Duntemann, J., Kalata, K., Krueger, M., Kalata, K., Sfura, J., and Toniolo, J., American Society of Civil Engineers, Structures Congress, "Increased Frequency of Fracturing Occurring in Roof Truss Systems Constructed with Fire Retardant treated Lumber"

Education

- Purdue University - Bachelors of Science - Civil Engineering - West Lafayette - Indiana

Affiliations

- Structural Engineers Association of Illinois

Licenses

- 22923 - Arkansas - Professional Engineer
 - 95179 - Florida - Professional Engineer
 - 62.058055 - Illinois - Professional Engineer
 - 81.006392 - Illinois - Structural Engineer
 - P28008 - Iowa - Professional Engineer
 - 12200675 - Indiana - Professional Engineer
 - 6201311071 - Michigan - Professional Engineer
 - 60479 - Minnesota - Professional Engineer
 - 2018010511 - Missouri - Professional Engineer
 - 46437 - North Carolina - Professional Engineer
 - 34114 - Oklahoma - Professional Engineer
 - 49632 - Wisconsin - Professional Engineer
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