

David Fusco, P.E., LEED AP

Vice President



Summary

David Fusco is the leader of the Thornton Tomasetti Tampa office and has an extensive career in the structural design of buildings, including iconic projects such as the Florida Polytechnic and St. Pete Pier. He is now focused on forensic evaluations for buildings and bridges in addition to designing. Mr. Fusco has worked on several significant forensic projects including the hard rock hotel collapse in New Orleans. He is actively involved in professional organizations, speaks frequently at schools, and mentors high school students.

Areas of Technical Expertise Include

- Forensic Investigations
- Structural Design
- Emergency Response

Education

- B.S., Civil Engineering with an emphasis on Structural Engineering and Construction Management, 2005, Rutgers University School of Engineering, New Brunswick, NJ

Registrations

- Registered Professional Engineer (Alabama, Arizona, Florida, Louisiana, Mississippi, New Jersey, Oklahoma, South Carolina, Texas, Virginia)
- LEED Accredited Professional

Professional Activities

- ACE Mentorship Program
- ENR 2020 Young Professional
- FSEA State Board, Bay Area Director, 2019-2020
- FSEA Bay Area Chapter, 2018 President
- SAME Young Member, SAME Tampa Post's Young Engineer of the Year for 2016

Papers, Publications, and Presentations

- "Structural Engineering" ACE Mentor Program, 2019 (Presenter)
- "Structures Presentation" University of South Florida Undergraduate Students, June 2019 (Co-presenter)
- "Drag Trusses" Structure Magazine, June 2019 (Co-author)
- "Structures Presentation" University of South Florida Undergraduate Students, June 2018 (Co-presenter)
- "Structures Presentation" University of South Florida Undergraduate Students, February 2018 (Presenter)
- "Structural Engineering" ACE Mentor Program, 2018 (Presenter)
- Great American Teach, HS (Presenter)

Select Project Experience

Forensic Investigations

JW Marriott Bonnet Creek, Orlando, FL. Provided litigation support for defense of general contractor for partial failure of 7th floor slab and shoring during construction.

Hard Rock Hotel, New Orleans, LA. Emergency response and deconstruction at the partial collapse site of the Hard Rock Hotel. Worked with local municipality, Urban Search and Rescue Team LA to assess the stability of the collapse site and develop a plan with demolition contractors DH Griffin and CDI to make the site more secure to allow more conventional recovery and deconstruction.

Confidential Bridge Collapse, Orlando, FL. Confidential forensic investigation involving a precast girder collapse during the construction of a new roadway bridge

Sanford Gateway Condominium, Orlando, FL. Litigation support for defense of structural engineer.

Confidential CAT Michael Projects, Panama City, FL. Building structural assessments, analysis and preparation of written reports

Toscana Condominium, Miami, FL. Provided non-testifying expert services such as review of documents, attendance at destructive testing, analysis, and preparation of written reports.

Eurofreezer Warehouse, Hialeah, FL. Provided forensic engineering to determine the causation of observed structural deficiencies.

Bahama Bay II Condominium, Kissimmee, FL. Provided litigation support for defense of insurance company for alleged structural damage to multiple buildings related to a sinkhole.

Valdivia / Olympus vs. Danco Roofing, Tampa, FL. Litigation for insurance company subrogation.

Confidential university project, Tampa, FL. Litigation support for defense of architect standard of care as it relates to structural deficiencies.

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Palma Bella Condominium Association Inc. vs. W.G. Yates & Sons Construction Company and DMC Real Estate Development, Tampa, FL. Litigation support for defense of PT contractor.

KPC Sarasota - The Vue, Sarasota, FL. Investigation of glass scratches on the facade of a condominium building.

Structural Design

Florida Polytechnic University Innovation, Science and Technology Building, Lakeland, FL. World renowned architect, Santiago Calatrava designed, two-story building providing classrooms and laboratories, a large central atrium and several outdoor assembly spaces.

St. Petersburg Pier, St. Petersburg, FL.* New iconic pier featuring a tram stop, welcome and event plaza, cultural grove, interactive water play, coastal thicket walk, playground, changing room, sea grass habitat, tilted lawn and lawn bowl, kayak and paddle boathouse, environmental centers, overlook bar and grill, water lounge, fishing pier and bait shack.

University of Pennsylvania Health System, Fisher Translational Research Center, Philadelphia, PA. Structural design of a 530,000-square-foot research tower accommodating two vivarium floors and five interdisciplinary research laboratory floors. The facility meets industry-standard vibration criteria. The fast-track project expected to receive LEED silver rating.

University of Pennsylvania Health System, Roberts Proton Therapy Center, Philadelphia, PA. Structural design of a 75,000-square-foot radiation therapy facility. The four-level center houses a 220-ton particle accelerator and three 40-foot treatment gantries. The structure uses thick reinforced concrete slabs and walls to provide radiation shielding.

University of Pennsylvania Health System, Ruth and Raymond Perelman Center for Advanced Medicine, Philadelphia, PA. Structural design of an award-winning 500,000-square-foot clinical research facility housing radiation oncology, cardiovascular medicine and outpatient surgical pavilion. The structure meets the vibration criteria and shields radiation. The center also features a transparent atrium with administrative offices and conference center, and a parking garage. It is expected to receive LEED certification.

Contact

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* Denotes work performed with previous employer.