

# Amir Mirmiran, Ph.D., P.E.

## Professor Civil Engineering

### The University of Texas at Tyler



#### Education:

Ph.D. Civil Engineering, University of Maryland, 1991  
M.S. Civil Engineering, University of Maryland, 1986  
B.S. Civil Engineering, University of Tehran, 1984  
P.E. Florida

#### Honors and Awards:

- Honorary Charter Member, National Academy of Inventors (NAI) (2013)
- Service Award, International Institute for FRP in Construction (2010)
- Engineer of the Year, American Society of Civil Engineers (ASCE) Miami-Dade Branch (2009)
- Elected Fellow, American Society of Civil Engineers (ASCE) (2006)
- Elected Fellow, American Concrete Institute (ACI) (2005)
- Applied Research Paper Honorable Mention Award, Construction Institute, ASCE (2004)
- Honor Roll Professor, College of Engineering, University of Cincinnati (2000)
- Technology Transfer Award, NASA (1997)
- Teaching Incentive Award, State University System of Florida (1996)
- NSF Faculty CAREER Development Award, National Science Foundation (1996)

#### Research Interests:

Fiber Reinforced Plastic (FRP) Composites for Infrastructure, Ultra High Performance Concrete (UHPC), Prestressed and Reinforced Concrete Bridges, Non-Destructive Testing of Prestressed and Reinforced Concrete and Composites, Nonlinear Finite Elements for Concrete and Composite Structures, and Bridge Engineering and Software Development.



# Areas of Research Interests

- Hybrid construction: Innovative structural systems with traditional and new materials for building and bridge applications
- Accelerated bridge construction systems and techniques
- Education: Departure from assembly line approach to engineering education

## US Patents:

Mirmiran, A., Chowdhury, A.G., and Suksawang, N. (2016). Wind Resistant Concrete Roof Component and System and Method for Forming Same, U.S. Patent 9,428,911 B2.

Mirmiran, A., and Shahawy, M. (2000). Pre stressed FRP Concrete Composite Structural Members, U.S. Patent No. 6,123,485 A.

Mirmiran, A., and Shahawy, M. (1997). FRP Concrete Composite Structural Members, U.S. Patent No. 5,599,599 A. Note: Licensed in 1999 to Intellectual Property Development of Coral Gables, FL.

## Select Publications:

Yang, X., Arockiasamy, M., Mirmiran, A., and Potter, W. "High Creep Stress Test of Carbon Fiber Composite Cable with Field-Made Anchorages," *Journal of Composites for Construction*, ASCE, Online posting March 2017, 06017001:1-5, print copy in press.

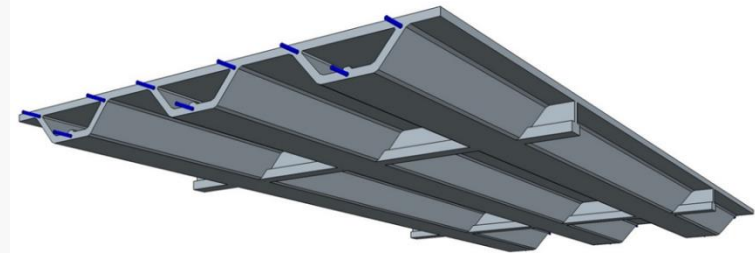
Motaref, S., Saiidi, M.S., Sanders, D., and Mirmiran, A. "Shake Table Studies of a Precast Bridge Pier with Advanced Materials," *International Journal of Bridge Engineering*, Special Issue, pp. 135-162, November 2016.

Mintz, B., Mirmiran, A., Suksawang, N., and Chowdhury, A.G. "Full-Scale Testing of a Precast Concrete SuperTile Roofing System for Hurricane Damage Mitigation," *Journal of Architectural Engineering*, ASCE, Online posting February 2016, Vol. 22, No. 3, B4016002:1-12, September 2016

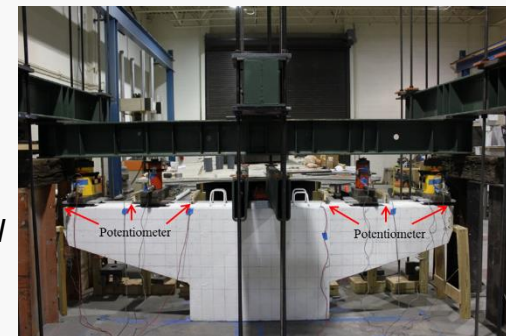
Ghasemi, S., Mirmiran, A., Xiao, Y., and Mackie K. "Novel UHPC-CFRP Waffle Deck Panel System for Accelerated Bridge Construction," *Journal of Composites for Construction*, ASCE, Online posting August 2015, Vol. 20, No. 1, pp. 04015036:1-10, February 2016.



Accelerated Bridge Deck Testing



Lightweight Hurricane-resistant UHPC Roof



CFRP Post-tensioned Pier Cap

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