

Issam Elias Harik, Ph.D.

Education

- Ph.D., Civil Engineering (Structures), Wayne State University, Detroit, Michigan, 12/82.
- M.S., Civil Engineering (Structures), Wayne State University, Detroit, Michigan, 12/78.
- B.S., Civil Engineering, Wayne State University, Detroit, Michigan, 6/77.

Specialization

Transportation Structures; Structural Evaluation, Analysis, Design, and Retrofit; Fiber Reinforced Polymer Composites; Structural Health Monitoring; Hazard Mitigation, Field Testing of Bridges; Reinforced and Prestressed Concrete, and Steel Structures.

Experience

- July 2000 – Present: Raymond-Blythe Professor, Department of Civil Engineering.
March 1993 – Present: Program Manager, Structures, Kentucky Transportation Center, University of Kentucky.
- July 2001 – June 2005: Chair, Department of Civil Engineering
July 2000 – June 2001: Interim Chair, Department of Civil Engineering.
July 1994 – Present: Professor of Structures; Department of Civil Engineering, University of Kentucky.
- July 1987 – June 1994: Associate Professor of Structures, Department of Civil Engineering, University of Kentucky.
- August 1982 – June 1987: Assistant Professor of Structures, Department of Civil Engineering, University of Kentucky.

Recent Relevant Research Awards

1. Harik, I.E., and Peiris, M.N.A., "Retrofit of Impacted Bridge Girders (039B00017N-KY 562 over I-71, Gallatin County, D06 - KHIT 126)," *Kentucky Transportation Cabinet*. 10/01/2018 to 6/30/2022.
\$120,000
2. Harik, I.E., and Peiris, M.N.A., "Initial CatStrong Deployment for Bridge Retrofit in Three KYTC Districts (KHIT 113)," *Kentucky Transportation Cabinet*. 07/1/2017 to 6/30/2020.
\$76,950
3. Harik, I.E., and Peiris, M.N.A., "Bridge Retrofit with CatStrong UCF and TCF - 056C00118N – Pendleton Road over Pond Creek Bridge. *Jefferson Co., KY*. 5/1/2017 to 6/30/2019.
\$106,000
4. Harik, I.E., and Peiris, M.N.A., and Gutierrez Soto, M. (joined the research team in 2018) "Load Rating of Bridge Size Culverts (FRT 198)", *Federal Highway Administration and Kentucky Transportation Cabinet*. 05/01/2013 to 06/30/2019.
\$700,000

Recent Relevant Articles

1. Ghanem, S. and Harik, I.E., "Concentrically Loaded Circular RC Columns Partially Confined With FRP," *International Journal of Concrete Structures and Materials*, Vol. 12, No. 52, December 2018, 17 pp.

2. Jawdhari, A., and Harik, I.E., "Simulation of Delamination Failures in RC Members Strengthened With CFRP Rod Panels and Laminates," *American Concrete Institute Special Publication SP-327*, November 2018, pp. 5.2-5.20.
3. Peiris, A. and Harik, I.E., "FRP-Steel Bond Study of IM and UHM CFRP Laminate Strips," *Journal of Construction & Building Materials*, Vol. 185, July 2018, pp. 628-637.
4. Zhu, Z., Harik, I.E., Gong, W., Li, Q., Wang, L.D., Bai, Y., "An Efficient Multi-Time-Step Method for Train-Track-Bridge Interaction," *Journal of Computers and Structures*, Vol. 196, February 2018, pp. 36-48.

Recent Conference Articles

1. Peiris, A., and Harik, I.E., "CFRP Rod Panel Retrofit of Impact Damaged RC Bridge Girders," 25th Australasian Conference on Mechanics of Structures and Materials (ACMSM25), Brisbane, Australia, December 4 - 7, 2018, 8 pp.
2. Peiris, A., Hudson, J., and Harik, I.E., "Load Testing and Rating of the KY 220 Road Bridge," International Symposium on Life-Cycle Civil Engineering 2018 (IALCCE 2018), Ghent, Belgium, October 28 - 31, 2018, pp. 161-167.
5. Jawdhari, A., Harik, I.E., and Fam, A., "Experimental and Finite Element Study on RC Beams Retrofitted by Full-Length and Spliced CFRP Laminates," The 9th International Conference on Fiber-Reinforced Polymer Composites in Civil Engineering (CICE 2018), Paris, France, July 17-19, 2018, 8 pp.
6. Choo, C.C., and Harik, I.E., "Structural Evaluation of the Historic Roebling Suspension Bridge," Structural Faults and Repair-2018 (SFR-2018), May 15-17, 2018, Edinburgh, United Kingdom, 9 pp.

Awards and Honors

- University of Kentucky, Raymond-Blythe Professor of Civil Engineering, 2000-present.
- Southeastern Conference Faculty Achievement Award-University of Kentucky, 2018.
- College of Engineering Dean's Award for Excellence in Research, 2017.
- Kentucky Society of Professional Engineers, KSPE 2003 Achievement in Education Award, 2003.
- University of Kentucky, Chancellor's Award for Outstanding Teaching, 1996.
- Outstanding Civil Engineering Teacher in 1983, 1988, 1992, and 1994, Dept. of Civil Eng., Univ. of Kentucky.

Summary of Accomplishments

- Since joining the University of Kentucky in August 1982, Dr. Harik has directed or co-directed the research on more than 100 funded projects. In 2017 and 2018, he directed or co-directed 21 research projects.
- Dr. Harik has directed or is currently directing the research of more than 45 Post Docs/visiting professors/scholars, 155 graduate students, 61 undergraduate students, and 24 high school students.
- Dr. Harik currently serves currently as a member of 9 societies and 9 committees; he chaired the Transportation Research Board Committee on Structural FRP (AFF80), and is a Council Member of the International Institute for Fiber Reinforced Polymer Composites in Construction and a member of the International Advisory Committee - Bridge Engineering Institute. He has organized, co-organized, and chaired national and international conferences, workshops, and technical sessions.
- Dr. Harik has authored or co-authored more than 340 technical publications.