

Curriculum Vitae
Bilal El-Ariss, Ph.D., P.Eng.

EDUCATION

Ph.D. in Structural Engineering **May 1999**
CONCORDIA UNIVERSITY, MONTREAL, QUEBEC, CANADA
Dissertation title: “*Nonlinear Time-Dependent Analysis of Externally and/or Internally Prestressed Reinforced Concrete Beams*”

M.Sc. in Structural Engineering **July 1988**
UNIVERSITY OF MISSOURI-COLUMBIA, COLUMBIA, MISSOURI, U.S.A.

B.Sc. in Civil Engineering (Structures) with honor **June 1984**
BEIRUT ARAB UNIVERSITY, BEIRUT, LEBANON

TEACHING EXPERIENCE

United Arab Emirates University, Al Ain, U.A.E. **(2001 - Present)**
ASSOCIATE PROFESSOR of Structural Engineering **Sept. 2007 - Present**
ASSISTANT PROFESSOR of Structural Engineering **Sept. 2001 - Aug. 2007**

TEACHING

Undergraduate and graduate courses in Structural Engineering

RESEARCH

Externally Funded Research Projects (NRF; Emirates Foundation)
Internally Funded Research Projects (UAEU)

SERVICE

Coordinator, Chair, and member of different Department and College Committees
Faculty Advisor - American Society of Civil Engineers (ASCE) International Student Group
Advisor, UAEU (2007 - present)

Concordia University, Montreal, Quebec, Canada **1993 - 1999**
TEACHING ASSISTANT

Concordia University, Montreal, Quebec, Canada **1993 - 1998**
GRADUATE RESEARCH ASSISTANT

University of Missouri-Columbia, Columbia, Missouri, U.S.A. **1987 - 1988**
GRADUATE RESEARCH ASSISTANT

WORK / PRACTICAL EXPERIENCE

Bouygues Target Joint Venture Company, Dubai, U.A.E. CONSULTANT (Externally Funded Short-Term Project)	April - June 2012
Abu Dhabi Company for Onshore Oil Operations (ADCO) Hubshan-Bab Oil Fields, Abu Dhabi, U.A.E. CONSULTANT (Externally Funded Short-Term Project)	January - May 2010
Abu Dhabi General Services (MUSANADA), Al Ain, U.A.E. CONSULTANT (Externally Funded Short-Term Project)	February - May 2009
Al Ain Municipality, Al Ain, U.A.E. CONSULTANT (Externally Funded Short-Term Project)	February - June 2008
Abu Dhabi Marine Operating Company, (ADMA OPCO) Das Island, Abu Dhabi, U.A.E. CONSULTANT (Externally Funded Short-term Project)	June - September 2005
United Arab Emirates University, Al Ain, U.A.E. CONSULTANT (Internally Funded Short-term Project)	September 2004
United Arab Emirates University, Al Ain, U.A.E. CONSULTANT (Internally Funded Short-term Project)	January 2004
Virginia Department of Transportation (VDOT) Structure and Bridge Division, Fredericksburg District Fredericksburg, Virginia, U.S.A. STRUCTURAL ENGINEER	1999 - 2001
Virginia Department of Transportation (VDOT) Structure and Bridge Division, Fredericksburg District Washington, D.C., U.S.A. VDOT BRIDGE OFFICE REPRESENTATIVE, National Transportation Research Board.	2000 - 2001
Daniel Consultants, Inc., Atlanta, Georgia, U.S.A. STRUCTURAL ENGINEER	1988 - 1991
Ghazal Construction, Inc., Beirut, Lebanon FIELD/CONSTRUCTION ENGINEER	1984 - 1986

PUBLICATIONS

JOURNAL PAPERS

- Said Elkoly, **Bilal El-Ariss** (2014). "Progressive Collapse Evaluation of Externally Mitigated Reinforced Concrete Beams," *Journal of Engineering Failure Analysis*, Vol. 40, pp. 33-47.
- Elkholy, S.A., Elsayed, A.A., **El-Ariss, B.**, and Sadek, S.A. (2014). "Optimal finite element modelling for modal analysis of liquid storage circular tanks," *International Journal of Structural Engineering*, 5(3), 207-241.
- Essam Zaneldin and **Bilal El-Ariss** (2013). "An Interactive Spreadsheet Framework for the Design of Structural Steel Members," *Journal of Civil Engineering and Science*, Vol. 2, Issue 1, pp. 30-36.
- **El-Ariss, B.** and Zaneldin, E. (2012). "Fiber Reinforced Polymer Materials in Construction Applications," *Journal of Civil Engineering and Science*, Vol. 1, No. 4, pp.47-51.
- El-Maaddawy, T. and **El-Ariss, B.** (2012). "Behavior of Concrete Beams with Short Shear Span and Web Opening Strengthened in Shear with CFRP Composites." *ASCE Journal of Composites for Construction*, 16(1), 47-59.
- Zaneldin, E. and **El-Ariss, B.** (2011) "Using Spreadsheets and VBA for Teaching Civil Engineering Concepts." *Journal of Education, Informatics and Cybernetics (JEIC)*, Vol. 2, No. 1, pp. 28-36.
- **El-Ariss, B.** (2011). "Instrumented drop weight impact test set-up design and assessment", *International Journal of Structural Engineering*, Vol. 2, No. 1, pp.85-99.
- Zaneldin, E. and **El-Ariss, B.** (2011). "Modelling Some Civil Engineering-Related Problems Using Spreadsheets and VBA", *European Journal of Scientific Research*, Vol. 48, No.3, pp. 370-380.
- **El-Ariss, B.** (2010). "Teaching Civil Engineering Course with Videoconference and Blackboard", *European Journal of Scientific Research*, Vol. 47, No.3, pp. 464-472.
- **El-Ariss, B.** (2010). "Shear Effects on Flexural Behavior of Internally Prestressed Concrete Beams", *European Journal of Scientific Research*, Vol. 47, No.2, pp. 207-213.
- **El-Ariss, B.** (2010). "Fire Protection of High-Rise Steel Buildings", *European Journal of Scientific Research*, Vol.47, No.1, pp. 144-155.
- **Bilal El-Ariss** (2007). "Behavior of Beams with Dowel Action," *Journal of Engineering Structures*, Volume 29, Issue 6, Pages 899-903.
- **El-Ariss, B.** (2007) "Strut-Tie Analysis of Beams with External Tendons," *Journal of Structures and Buildings*, Volume 160, Issue 1, Pages 31-35.
- **B. El-Ariss** (2006). "Shear Mechanism in Cracked Concrete," *International Journal of Applied Mathematics and Mechanics*, Volume 2, Issue 3, Pages 24-31.
- **El-Ariss, B.** (2006). "Effect of reducing coarse aggregates on concrete strength," *Journal of Construction and Building Materials*, Volume 20, Issue 3, Pages 149-157.

- **El-Ariss, B.** (2004). “Stiffness of reinforced concrete beams with external tendons,” *Journal of Engineering Structures*, Volume 26, Issue 14, Pages 2047-2051.

CONFERENCE PAPERS AND PRESENTATIONS

- **El-Ariss, B.** (2014). “Assessment of Engineering Course Outcomes: Case Study,” *International Conference on Engineering Education and Research (iCEER2014-McMaster)*, Hamilton, Ontario, Canada, August 24-26, 2014.
- **Invitation to Panel Discussions:** As Abu Dhabi Lead Scorer of Assessment of Higher Education Learning Outcomes (AHELO) tests in Abu Dhabi, UAE, **Bilal El-Ariss** was invited to a Panel Discussions where I contributed to discussions on the “AHELO Feasibility Study Conference and Symposium,” March 11-13, 2013, Organization for Economic Cooperation and Development (OECD) Headquarter, Paris, France.
- Zanelidin, E. and **El-Ariss, B.** (2012). “A Spreadsheet Model for Time-Cost Tradeoff Analysis and Project Control.” The First Australasia and South-East Asia Structural Engineering and Construction Conference(ASEA-SEC-1), November 28-December 2, 2012, Perth, Australia, pp. 979-984.
- **El-Ariss, B.** and Zanelidin, E. (2012). “Modelling Scaffold Support System for Linear Analysis.” The First Australasia and South-East Asia Structural Engineering and Construction Conference(ASEA-SEC-1), November 28-December 2, 2012, Perth, Australia, pp. 165-170.
- El-Maaddawy, T. and **El-Ariss, B.**, “Experimental investigation into the performance of concrete beams with rectangular openings strengthened in shear with CFRP composites”, SEWC (Structural Engineer World Congress), Como, Italy, April 4 – 6, 2011.
- **El-Ariss, B.** and Zanelidin, E., “Using Microsoft Visual Basic as a Tool to Support the Design of Structural Steel Members,” *ED-MEDIA 2010-World Conference on Educational Multimedia, Hypermedia & Telecommunications*, Toronto, Canada, June 29 - July 2, 2010.
- **Bilal El-Ariss**, “Teaching Graduate Attributes: Case Study Civil Engineering,” *SITE 2009: The 20th Annual SITE International Conference on Contemporary Issues in Technology and Teacher Education (CITE)*, Charleston, South Carolina, U.S.A., March 2 - 6, 2009.
- **El-Ariss, B.**, “Blackboard and Videoconference in Teaching Structural Analysis,” *SITE 2008: Society for Information Technology & Teacher Education International Conference (19th International Conference)*, March 3-7, 2008; Las Vegas, Nevada, USA.
- **El-Ariss, B.**, “Capacity Model for Prestressed Concrete Beams,” *International Association for Bridges and Structural Engineering (IABSE) Conference on Operations, Maintenance and Rehabilitation of Large Infrastructure Projects, Bridges and Tunnels*, Copenhagen, Denmark, May 15-17, 2006.
- **El-Ariss, B.**, “Fire Protection of High-Rise Steel Buildings,” the 7th *International Federation of High-Rise Structures (IFHS) International Conference on Multi-Purpose High-Rise Towers & Tall Buildings*, December 10-11, 2005, Dubai, UAE.
- **El-Ariss, B.**, “Concrete Mixes for Desert Environments,” the *Sixth Congress entitled Global Construction - Ultimate Concrete Opportunities*, Dundee, Scotland , July 05-07, 2005.

- **El-Ariss, B.**, “Effects of Sever Hot-Dry Weather on the Flexural Behavior of Beams with External FRP Tendons,” *3rd International Conference on New Dimensions in Bridges, Flyovers, Overpasses & Elevated Structures*, Kuala Lumpur, Malaysia, April 09-10, 2003.
- **El-Ariss, B. and Soubra, A.**, “Upper-bound Solutions for Seismic Active and Passive Earth Pressure Coefficients on Rigid Retaining Structures using a Pseudo-Static Approach,” *VII International Conference on Computational Plasticity*, Barcelona, 7-10 April, 2003.

REVIEWER FOR INTERNATIONAL JOURNAL AND CONFERENCE PAPERS AND CRC PRESS/ TAYLOR AND FRANCIS - ENGINEERING BOOK CHAPTERS

- **American Concrete Institute (ACI) Structural Journal**
- **Engineering Structures Journal**, Elsevier.
- **Construction & Building Materials Journal**, Elsevier.
- **Indian Journal of Engineering & Materials Sciences (IJEMS)**
- The *8th IFHS International Conference on Multi-Purpose High-Rise Towers & Tall Buildings*, December 10-12, 2007, Dubai, UAE.
- The *7th IFHS International Conference on Multi-Purpose High-Rise Towers & Tall Buildings*, December 10-11, 2005, Dubai, UAE.
- The *Ninth Arab Structural Engineering Conference (9ASEC)*, November 29 - December 01, 2003, Abu Dhabi, UAE.
- Have reviewed chapters in “Design of Reinforced Concrete Structures” books for **CRC Press/Taylor and Francis**, January-February 2014.

PROFESSIONAL AND SCIENTIFIC MEMBERSHIPS

- **Member** of the American Society of Civil Engineers (ASCE).
- **Member** of the Canadian Society for Civil Engineering (CSCE).
- **Member** of International Association for Bridges and Structural Engineering (IABSE).
- **Professional Engineer** - Member of the Association of Professional Engineers of Ontario (PEO), Ontario, Canada. **License number: 100056700.**