

Basem Hassan Abdelbaset AbdelAleem

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Home Page: https://www.researchgate.net/profile/Basem_H_Abdelaleem;
<https://scholar.google.com/citations?user=16LD4hMAAAAJ&hl=ar&oi=ao>

Personal

- ✓ Place of Birth: Cairo.
- ✓ Date of Birth: October 30th, 1990.
- ✓ Marital Status: Married.

Education

Ph.D. in Civil Engineering (January 2016-August 2019)

Department of Civil Engineering, Memorial University, St. John's, NL, Canada.

Thesis Title: Structural Behavior of Rubberized Concrete Containing Synthetic Fibers

M.Sc. in Structural Engineering (September. 2012-May 2015)

Department of Structural Engineering, Cairo University, Giza, Egypt.

Thesis Title: Evaluation of Shear Strength of Tapered Plate-Girder Web

B.Sc. in Civil Engineering (September 2007-May 2012)

Department of Civil Engineering, Cairo University, Giza, Egypt.

Languages

- ✓ Arabic
- ✓ English

Work Experience

Teaching and Research Assistant (January 2016- August 2019)

Department of Civil Engineering, Memorial University, St. John's NL, Canada.

Teaching courses:

- ✓ Engineering Statics.
- ✓ Materials of Construction.
- ✓ Design of Concrete Structures.

Teaching and Research Assistant (September 2012- December 2015)

Department of Structural Engineering, Cairo University, Giza, Egypt.

Teaching courses:

- ✓ Steel Structures (I) - Design of Members.
- ✓ Steel Structures (II) - Design of Connections.
- ✓ Structures analysis (I).

Design Engineer (August 2012- December 2015)

COSMOS Engineering consultant office

Duties:

- ✓ Suez cement" factory in Kattamya, check and strengthening for pre-heater building.
- ✓ "Coal and Gridding" factory in Jordan, design and detailing for series of buildings (material conveyor).
- ✓ "Mining Company" in Jordan, design and detailing for series of buildings (Head House).
- ✓ "EDITA" factory phase 2 in 6-October city, Egypt, revision for steel structure.
- ✓ "Titan Fuel Line" in Jordan, design and detailing for series of buildings.
- ✓ "Ragab Sons" in Egypt, revision for steel structure.
- ✓ "DANILE" in Egypt, design and detailing for steel structure.
- ✓ "Bagging Building" in Jordon, design and detailing for series of buildings.

Leadership

- ✓ The Vice President of Egyptian Students' Association (2017-2018).
- ✓ Member in the Academic Committee of GSU (2017-2018).
- ✓ Member in the Finance Committee of GSU (2017-2018).

Computer Skills

- ✓ General Programs: Microsoft Office
- ✓ Engineering Programs: AUTOCAD, SAP, ETABS, ANSYS, Water CAD, Sewer CAD, and COSMOS/M

Research Highlights

- ✓ Development of Self-Consolidating Concrete (SCC), rubberized SCC, fibre reinforced concrete, and Engineered Cementitious Composite (ECC).
- ✓ The use of waste materials and mineral admixtures in concrete.
- ✓ Impact strength, bond, shear, flexural, cyclic, cracking, and deflection performance of large-scale structural members.

Publications

International Journal Publications:

1. **Basem H. AbdelAleem**, Mohamed K. Ismail, and Assem A. A. Hassan (2017). Properties of self-consolidating rubberized concrete reinforced with synthetic fibers. *Magazine of Concrete Research*, 69(10), 526-540.
2. Mohamed H. Serror, **Basem H. AbdelAleem**, and Hesham S. Sayed (2017). Shear strength of tapered end web panels. *Journal of Constructional Steel Research*, 138, 513-525.
3. **Basem H. AbdelAleem**, Mohamed K. Ismail, and Assem A. A. Hassan (2018). The combined effect of crumb rubber and synthetic fibers on impact resistance of self-consolidating concrete. *Construction and Building Materials*, 162, 816-829.
4. **Basem H. AbdelAleem** and Assem A. A. Hassan (2018). Development of self-consolidating rubberized concrete incorporating silica fume. *Construction and Building Materials*, 161, 389-397.
5. **Basem H. AbdelAleem**, Mohamed K. Ismail, and Assem A. A. Hassan (2018). Effect of Synthetic Fibers on Shear Capacity of Reinforced Rubberized Concrete Beams. *ACI Materials Journal*, 115(2), 279-288.
6. **Basem H. AbdelAleem** and Assem A. A. Hassan (2018). Influence of rubber content on enhancing the structural behaviour of beam–column joints. *Magazine of Concrete Research*, 70(19), 984-996.
7. **Basem H. AbdelAleem** and Assem A. A. Hassan (2019). Effect of combining steel fibers with crumb rubber on enhancing the behavior of beam-column joints under cyclic loading. *Engineering Structures*, 182, 510-527.
8. **Basem H. AbdelAleem** and Assem A. A. Hassan (2019). Cyclic Behavior of Rubberized Beam-Column Joints Reinforced with Synthetic Fibers. *ACI Materials Journal*, 116(2), 105-118.
9. **Basem H. AbdelAleem** and Assem A. A. Hassan. Structural behavior of rubberized ECC beam-column joints under cyclic loading. (Accepted in ACI Structural Journal)
10. Ahmed A. Abouhussien, Assem A. A. Hassan and **Basem H. AbdelAleem**. AE Analysis of SCRC Beam-Column Connections under Cyclic Loading. (Accepted in ACI materials Journal)
11. Ahmed A. Abouhussien, Assem A. A. Hassan, Mohamed K. Ismail, and **Basem H. AbdelAleem** (2019). Evaluating the cracking behavior of ECC beam-column connections under cyclic loading by acoustic emission analysis. *Construction and building materials Journal*. 215, 958-968.

Other Activities

I have been involved as a reviewer for a number of peer-reviewed journals in the area of Structural Engineering, as follows:

- ✓ ACI Journal of Materials.
- ✓ Journal of Civil Engineering Materials, ASCE.
- ✓ Construction and Building Materials.

Interests

- ✓ Football, Hiking, and Reading.

References

- ✓ Available Upon Request.