

Khair Al-Deen Bsisu

Phone: +1(204)770-0639; Email: bsisu@yahoo.com , k.bsisu@ju.edu.jo

Education & Credentials

Consultant Engineer

Jordan Higher Council for Professional Qualification
and Accreditation
Title: Jordan Consultant Engineer in Structural Engineering

2015

Amman, Jordan

Ph.D. Civil Engineering

The University of Jordan
Thesis Title: *Retrofitting of Square Reinforced Concrete Columns with Steel Jackets.*

2002

Amman, Jordan

M.Sc. Structural Engineering

The University of Jordan
Thesis Title: Shear Strength of Corrugated Steel Channel Filler Sandwiched Concrete Slabs.

1989

Amman, Jordan

B.Sc. Civil Engineering

The University of Jordan
Graduation Project: Design and Detailing of King Abdullah Mosque.

1983

Amman, Jordan

Work Experience

Associate Professor

The University of Jordan
Faculty of Engineering and Technology: Civil Engineering Department

2010 - present

Amman, Jordan

- Courses Taught: Statics, Strength of Materials, Structural Analysis 1 & 2, Reinforced Concrete Design 1 & 2, Bridge Design, and Finite Element Analysis.

Research Scholar

Ohio University (Delegated from The University of Jordan)
Russ College of Engineering
Civil Engineering Department
Ohio Research Institute for Transportation and the Environment
Research topics:

Mar. - Aug. 2014

Athens, Ohio, USA

- Structural examination and evaluation of existing highway bridges
- Behavior of beams retrofitted with CFRP
- Structural health monitoring of structures
- Soil – structure interaction / evaluation of existing culverts

Owner and Senior Structural Design Engineer

Bsisu Engineering Consultants

2008-2010

Amman, Jordan

- Structural design and supervision of highway bridges, pedestrian bridges and residential and commercial buildings in Jordan.

Unemployed**2004-2008**
Winnipeg, Canada**C.E.O.**

Al-Eman Contracting and Housing Company L.L.C

2001-2004
Amman, Jordan

- Responsible for all the company's construction projects and operations in Jordan.

Partner and Senior Structural Design Engineer

Bsisu & Hmood Engineering consultants

1991-2001
Amman, Jordan

- Structural design and supervision of highway and pedestrian bridges.
- Structural design and supervision of residential and commercial buildings in Jordan.

Senior Civil/Structural Engineer

Ministry of public works and housing

1987-1991
Amman, Jordan

- Structural design and supervision of highway and pedestrian bridges.
- Structural design and supervision of schools, community centers and public buildings.
- Member of the tenders committee
- Technical evaluation of consultants and contractors.
- Delegate to the Noor-Al-Hussein Foundation for the production of the design and tender documents of the foundation's projects.
- Member of the National committee for the mitigation of earthquake hazards in Jordan, responsible for setting up the national emergency plan in case of an earthquake.

Associate Head of Civil and Structural Engineering Dept.

Shubailat & Badran Engineering Co.

1983-1987
Amman, Jordan

- Project manager for the design of all steel framed structures and masonry buildings in the supplemental installation of the Jordan cement factory project, delegated to the main consultants "Holderbank and Heinzelman" in Switzerland.
- Associate manager of the structural design department, including the production of the structural design drawings for the Grand Mosque in Saudi Arabia (38000 m²) and the Queen Alia International Airport Housing Project(40000 m²).

Published Papers

- Finite Element Analysis of a Glass Facades Supported by Pre-Tensioned Cable Trusses, International Journal of Civil and Environmental Engineering; Vol. 3, No. 8, 2016.
- Strength and Ductility Assessment of Strengthened Reinforced Concrete Beams Using Externally Bonded CFRP with Varied Width and Thickness, Journal of American Science; Vol. 11, No. 8, 2015.

- Finite Element Analysis of Retrofitting Techniques for Reinforced Concrete Beam-Column Joint, *Journal of American Science*; Vol. 11, No.8, 2015.
- The Effect of Width, Multiple Layers and Strength of FRP Sheets on Strength and Ductility of Strengthened Reinforced Concrete Beams in Flexure, *Jordan Journal of Civil Engineering*; Vol. 9, No. 1, 2015.
- A Proposed Model At Failure Stage To Assess The Bearing Stress Of Normal Weight Concrete, *Engineering Research and Applications*, Vol. 3, Issue 1, January -February 2013, pp.793-802
- Flexural Ductility Behavior of Strengthened Reinforced Concrete Beams Using Steel and CFRP Plates, *Jordan Journal of Civil Engineering*, Volume 6, No. 3, 2012
- A Comprehensive Study of the Seismic Requirements for Bond between Concrete and Reinforcing Steel, *Advanced Materials Research* Volume: 446-449 Pages: 490-493, 2012
- Resistance of exterior three-dimensional walls to high velocity projectiles, *Elsiver, Composites – Part B*, 43 (2012) 3431–3435, 2012
- Engineering Ethics and Conduct, *Proceedings of The Fifth Jordanian International Civil Engineering Conference*, Jan. 2012.
- Structural Assessment of a 40 Year Old R.C. Building, *Advanced Materials Research*, Vols. 163-167, 2011.
- Comparing the use of CFRP laminates with light gauge galvanized steel plates in structural strengthening of beams subjected to flexural loading, *proceedings The International Conference on Structures and Building Materials (ICSBM 2011)*, Guangzhou, China, 2011.
- Retrofitting of Square Reinforced Concrete Columns Subjected to Concentric Axial Loading with Steel Jackets, *proceedings of the Structural Faults and Repairs Conference 2006*, Edinburgh, U.K., 2006.
- Effects of Residual Stresses on the strength of Battened Composite Columns, *Dirasat Journal - Engineering Sciences* , Yasser M Hunaiti; Khair Al-Deen Bsisu; Hamdan Irshidat Vol. 31, Issue 2, 2004, pages 252 - 269.
- Shear Strength of Corrugated Steel Channel Filler Sandwiched Concrete Slabs, *proceedings of the Third International Conference on Earthquake Resistant Engineering Structures*, Malaga, Spain, 2001.
- Shear Strength of Corrugated Steel Channel Filler Sandwiched Concrete Slabs, *proceedings of the Third International Conference on Earthquake Resistant Engineering Structures*, Malaga, Spain, 2001.
- Ja'far Toukan, *Jordanian Engineers Association Scientific Magazine*, Vol. 30, No. 57, 1995.
- Real-World Engineering, a Guide to Achieving Career Success, *Jordanian Engineering Association Scientific Magazine*, Vol. 29, No. 55, 1994.
- Bond Stress, Nature and Analysis, *Jordanian Engineers Association Scientific Magazine*, Vol. 25, No. 46, 1990.
- Experience in Graphics Applications in Jordan, *proceedings of the First National Conference for Computers and it's Applications in Jordan*, 1986.

Conferences

- The 18th International Conference on Civil, Environmental and Structural Engineering, Vancouver, Canada, August 04-05, 2016
- The 6th Jordanian International Civil Engineering Conference, Amman, Jordan, Jan. 2015.
- Member of the organizing committee and keynote speaker at The 2nd International Conference of Civil and Architectural Engineering (CAAE 2014), Chicago, Illinois, USA, 2014.
- Member of the organizing committee of The 5th Jordanian International Civil Engineering Conference, Amman, 2012
- The International Conference on Structures and Building Materials (ICSBM 2011), Guangzhou, China, 2011.
- The Structural Faults and Repairs Conference 2006, Edinburgh, U.K., 2006.
- 5th Conference on Fiber Reinforced Plastics for Reinforced Concrete Structures, Cambridge, UK, 2001
- 2nd Worldwide ECCE Symposium on Information and Communication Technology in the Practice of Building and Civil Engineering, Espoo, Finland, 2001
- 3rd Jordanian Civil Engineering conference, Amman, Jordan, 2001
- The International Conference on Earthquake Engineering, Amman, Jordan, 1995
- The international seminar on China studies, Taipei, Taiwan, 1994
- Indo-Jordanian seminar on computer aided engineering design and software development, Amman, Jordan, 1990
- Introductory workshop on future work and training for the assessment and mitigation of earthquake risk in Jordan, Amman, Jordan, 1987
- The First National conference for Computers and it's Applications in Jordan, Amman, Jordan, 1986
- The first international conference on concrete technology, Yarmouk University, Amman, Jordan, 1983.

REFERENCES AVAILABLE UPON REQUEST.