

## **Dr. Yasmeeen Taleb Obaidat; Ph.D.**

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Jordan University of Science & Technology (JUST)  
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### **EDUCATION**

Ph.D.: Civil Engineering, Structural mechanics, University of Lund, Lund, Sweden. Dec. 6, 2011.

Licentiate: Civil Engineering, Structural mechanics, University of Lund, Lund, Sweden. May, 2009.

M.Sc.: Civil Engineering, Structural Engineering, Jordan University of Science and Technology (JUST), Irbid, Jordan, June. 2007.

B.Sc.: Civil Engineering, Structural Engineering, Jordan University of Science and Technology (JUST), Irbid, Jordan, Sept. 2004.

### **THESES**

Ph.D. Thesis: "Structural retrofitting of concrete beams using FRP - debonding issues ", published, ISBN 978-91-7473-194-1, ISSN 0281-6679, Lund University, 2011.

Licentiate Thesis: "Structural retrofitting of reinforced concrete beams using carbon fibre reinforced polymer ", published, ISSN: 0281-6679, Lund University, 2010.

Master Thesis: "Retrofitting of Reinforced Concrete Beams Using Composite Laminates", unpublished, 2007.

### **RELATED COURSE WORK**

#### **Ph.D. Courses:**

1. Introduction to the finite element method
2. Finite element procedure, Bathe, Part1
3. Finite element procedure, Bathe, Part2
4. Load bearing fibre composites
5. Continuum mechanics

6. Fracture mechanics models
7. Research methodology
8. Scientific information management
9. Technical writing for publication
10. Spoken Technical communication
11. Mathematic for PhD students

M.Sc. Courses:

1. Advanced reinforced concrete
2. Finite element method
3. Advanced concrete technology
4. Structural dynamics
5. Advanced structural mechanics
6. Design of thin concrete structures
7. Highway materials
8. Advanced applied mathematics

**WORK HISTORY**

1. Assistant Professor, Department of Civil Engineering, Jordan University of Science & Technology (JUST), Irbid, JORDAN. 2012-present.
2. Head of Department of Civil Engineering at Yarmouk University, Irbid, JORDAN. 2012-june, 2015.
3. Assistant Professor, Department of Civil Engineering, Yarmouk University, Irbid, JORDAN. 2012-2016.
4. Research Assistant, Building Research Centre (BRC), Royal Scientific Society (RSS), Amman, JORDAN. August 2007- 2012.
5. Teaching and Research Assistant, Department of Civil Engineering, Jordan University of Science & Technology (JUST), Irbid, JORDAN. October. 2004.

**RESEARCH INTERESTS**

- Behaviour of concrete beam retrofitted with fibre reinforced polymer (FRP).
- Finite element modelling of retrofitted concrete beam.
- Climatic design.

**RESEARCH GRANTS**

- Erasmus mounds windows lot 3 funds to support PhD study at Lund University, Lund, Sweden. Grant amount of 48000 Euro; year 2008.
- Grant (Scientific Research Support), "Production of Self compacted concrete by using white cement by pass dust", Deanship of Scientific Research Yarmouk University.

- Retrofitting of Reinforced SCC cantilever beam exposed to elevated temperature using CFRP-under static and dynamic loading, Scientific Research support Fund (Ministry of Higher Education).

## **PROFESSIONAL AND SCIENTIFIC MEETINGS**

- Participating in the forth MED-ENEC renewable energy conference in Syria, Damascus and Palmyra, and participant in the MED-ENEC workshop within the conference, (June, 21-22, 2007)
- Participating in the MED-ENEC workshop “Planning and Design” in Tunisia, (Dec. 5-6, 2006).

## **PUBLICATIONS**

### **A. Published in refereed, specialized, international, and indexed journals:**

1. **Obaidat, Y.T.**, Heyden, S., Dahlblom, O., Abu-Farsakh, G., and Abdel-Jawad, Y.: Retrofitting of reinforced concrete beams using composite laminates. Published in *Construction & Building Materials*, 2011; 25: 591-597.
2. **Obaidat, Y.T.**, Heyden, S. and Dahlblom, O.: The Effect of CFRP and CFRP/ Concrete Interface Models when Modelling Retrofitted RC Beams with FEM. Published in *Composite Structures*, 2010; 92: 1391–1398.
3. **Obaidat, Y.T.**, Heyden, S. and Dahlblom, O. Evaluation of Parameters of Bond Action Between FRP and Concrete. *Journal of Composites for Construction (ASCE)* 2013, 17(5), 626–635.
- 4- **Obaidat, Y.T.**, Effect of interfacial properties on behaviour of retrofitted member. *JJCE*. 2013.
- 5- **Obaidat, Y.T.**, Khedaywi, T.S., Alsheyab, M.A. Assessment of the potential for using EAFD in cement paste in Jordan, *European Journal of Environmental and Civil Engineering* 05/2015; DOI:10.1080/19648189.2015.
- 6- **Obaidat, Y.T.**, Haddad, R.H. Prediction of residual mechanical behavior of heat-exposed LWAC short column: a NLFE model. *Structural Engineering and Mechanics*. 12/2015; 57(2):265-280.
- 7- Alkheder, S., Taamneh, M., & **Obaidat, Y.T.** Effect of olive waste (Husk) on behavior of cement paste. *Case Studies in Construction Materials*. 2016, DOI: 10.1016/j.cscm.2016.05.001.

8- **Obaidat, Y.T.** The effect of beam design on behaviour of retrofitted beam using CFRP. Jordan Journal of Civil Engineering. 2018, 12(1):149-161.

9- Haddad, R.H., **Obaidat, Y.T.** A Nonlinear Finite Element Model for Shear Deficient Heat-Damaged Concrete Beams Repaired Using NSM CFRP Strips. Construction and Building Materials. 2018, 170(3), DOI: 10.1016/j.conbuildmat.2018.03.084

10- Ashteyat, A., Haddad, R.H., **Obaidat, Y.T.** Case study on Production of Self Compacting Concrete Using White Cement by Pass Dust. Case Studies in Construction Materials. 2018, DOI: 10.1016/j.cscm.2018.e00190.

11- **Obaidat, Y.T.**, Haddad, R.H., Abdulwahab.AM. Innovative strengthening schemes of concrete cantilever beams using CFRP sheets: End anchorage effect. Construction and Building Materials. 2018, 190(1):1215-1225, DOI: 10.1016/j.conbuildmat.2018.09.147.

12- Obaidat, Y.T., Abu-Farsakh, G., Ashteyat, A. Retrofitting of partially damaged reinforced concrete beam-column joints using various plate-configurations of CFRP under cyclic loading. Construction and Building Materials. 2018, Construction and Building Materials 198(1):313-322, DOI: 10.1016/j.conbuildmat.2018.11.267.

13- Al Rjoub, Y., Ashteyat, A., **Obaidat, Y.T.**, Bani-Youniss. Shear strengthening of RC beams using near-surface mounted carbon fibre-reinforced polymers. Australian Journal of Structural Engineering. DOI: 10.1080/13287982.2019.1565617.

**B. Accepted for publication in refereed, specialized, international, and indexed journals:**

**C. International Conferences (Presentation and Proceedings Publications)**

1. **Obaidat, Y.T.**, Heyden, S. and Dahlblom, O.: Plate End Debonding: A Modified Approach to Predict Stress in FRP – Concrete Bond. Published in proceedings of the 6th International Conference on Composites in Construction Engineering (CICE 2012).
2. **Obaidat, Y.T.**, Dahlblom, O. and Heyden, S. Nonlinear FE modelling of shear behaviour in RC beam retrofitted with CFRP. Published in proceedings of Computational Modelling of Concrete Structures (EURO-C 2010), 2010, 671–677.
3. **Obaidat, Y.T.**, Dahlblom, O. and Heyden, S. Nonlinear FE Model of the CFRP / Concrete Interface. Published in proceedings of the 22nd Nordic Seminar on Computational Mechanics, Aalborg, Denmark, 2009.
4. Awadallah, T. Adas, H. **Obaidat, Y.**, Jarrar, I. Energy Efficient Building Code for Jordan. Conference in Jerusalem. 2009.

5. **Obaidat, Y.T., Dahlblom, O. and Heyden, S.** Retrofitting of reinforced concrete beams using composite laminates. Published in proceedings of the 21st Nordic seminar on Computational Mechanics, Trondheim, Norway, 2008.

#### **D. OTHER RESEARCH:**

- Participation in the updating of the “Reinforcement Concrete Code”, Jordanian Building Council, Royal Scientific Society, (June 2007)
- Participation in the updating of the “Urban Code”, Jordanian Building Council, Royal Scientific Society, (January 2007)
- Participation in the updating of the “Foundation and Reinforcement walls code”, Jordanian Building Council, Royal Scientific Society, (June 2006)
- Participation in the updating of the “Lift code”, Jordanian Building Council, Royal Scientific Society, (August 2006)
- Participation in “Comfort Teaching” study and report on thermal comfort inside classrooms in Jordan, for the “Defining means and criteria for improving thermal performance and minimizing energy consumption in buildings in Jordan” project, (2005).

#### **ATTENDED SHORT-COURSES, TRAINING, AND WORKSHOPS**

- A course of study in “*Employees Performance Development*”, Royal Scientific Society, Amman. (22 July 2007)
- A course of study in “*Internal Quality Auditor*”, Royal Scientific Society, Amman, supervised by Lloyd’s Register Quality Assurance. (21 May./2006). A course of study in “*Time Management*”, Royal Scientific Society, Amman, Instructed by Dr. Ahmed Boran. (20 April 2006)
- An advance training program “*Climatic Design of Buildings and Urban Areas*”, organized by Housing Development & management Department, Lund University, Sweden, SIDA. (April- November 2005).
- A course of study in “*Career Advancement Skill Workshop*”, Royal Scientific Society, Amman, Instructed. (22 August 2005).

#### **MASTER THESES SUPERVISION:**

##### **Advisor of the following Master Theses:**

1. Al-faris, S. (2018). “Behavior of Damaged Rectangular Reinforced Concrete Columns Repaired With Unidirectional Carbon Fiber Cord”. Jordan University of Science and Technology.

### **Co-advisor of the following Master Theses:**

1. Abdul-wahab, M. (2016) “An Anchorage System of Fiber Reinforced Polymer (FRP) Strengthened Cantilever Beams.” Jordan University of Science and Technology.
2. Al Ghazawi, Q. (2017) “Numerical And Finite Element Modeling Of Maximum Debonding Strain in CFRP Strengthened Reinforced Concrete Beams in Flexure”. Jordan University of Science and Technology.
3. Maabreh, A. (2018). “Effect of Coarse Aggregate Size upon Bond Behavior between Concrete and Carbon Fiber Reinforced Polymeric Sheets”. Jordan University of Science and Technology.

### **HONOR AND AWARDS**

- Honored the President and Dean medals for all semesters during undergraduate study.
- Ranked the first student with honor for the undergraduate.

### **SKILLS**

- Mastering computer programming in C++.
- MatLab.
- Mathcad.
- - Etabs
- ABAQUS.
- Spreadsheet: MS-Excel.
- Word Processing: MS-Word, Power Point, Access, and others.
- Graphics Software: Grapher, Surfer and others.
- Internet Communications
- Mastering much other software.
- Good Command in English Language in addition to my mother Language (Arabic).

### **ACTIVITIES AND COMMUNITY SERVICE**

Member of engineering association and other associations

### **COLLABORATIONS** (True believe of collaborative research)

From Jordan University of Science and Technology

- Prof. Rami Haddad, Chairman of Civil Engineering Department; Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan. Phone 00-962-2-7201000 ext. 22139, Fax: 00-962-2-7095148; E-mail: [rhaddad@just.edu.jo](mailto:rhaddad@just.edu.jo)
- Professor Taiser Al-Khydaiwi, X-Dean of Engineering, Civil Engineering Department, Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan,

Phone 00-962-2-7201000, Fax: 00-962-2-7095123 or 00-962-2-7095018; E-mail: khedaywi@just.edu.jo

- Professor Ghazi Abo-Farsak, Civil Engineering Department, Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan, Phone 00-962-2-7201000, Fax: 00-962-2-7095123 or 00-962-2-7095018; E-mail: [ghazi@just.edu.jo](mailto:ghazi@just.edu.jo)
- Professor Yahia Abdul-Jawad, Civil Engineering Department, Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan, Phone 00-962-2-7201000, Fax: 00-962-2-7095123 or 00-962-2-7095018; E-mail: jawad@just.edu.jo

#### Outside Jordan University of Science and Technology

- Professor Ola Dahlblom, Structural mechanics, Lund university, Lund, Sweden, Phone:004646-2229507; Fax: 004646-2224420, E-mail: ola.dahlblom@construction.lth.se (Ph.D. Thesis Advisor).
- Doctor Susanne Heyden, Structural mechanics, Lund university, Lund, Sweden, Phone: 004646-2227374; Fax: 004646-2224420, E-mail: susanne.heyden@construction.lth.se (Ph.D. Thesis Co-advisor).
- Ahmad Ashteyat, Civil Engineering Department, Jordan University, Amman, Jordan. Phone: 00962796842770. Email: [a.ashteyat@ju.edu.jo](mailto:a.ashteyat@ju.edu.jo)
- Madher Taamneh, Civil Engineering Department, Yarmouk University, Irbid, Jordan. Phone: 0096279762762. Email: [madhertaamneh@yu.edu.jo](mailto:madhertaamneh@yu.edu.jo)
- Sharaf Alkheder, Civil Engineering Department, Yarmouk University, Irbid, Jordan. Email: [sharafalkheder@yu.edu.jo](mailto:sharafalkheder@yu.edu.jo)

#### **REFERENCES**

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- Professor Turki Al-Suleiman Obaidat, Former Dean of Engineering; Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan, Phone 00-962-2-7201000, Fax: 00-962-2-7095123 or 00-962-2-7095018
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- Professor Saed bu-Qudais; Civil Engineering Department, Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan, Phone 00-962-2-7201000, Fax: 00-962-2-7095123 or 00-962-2-7095018; E-mail: aboqdaais@just.edu.jo
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- Professor Mohammed Al-Smadi, Civil Engineering Department, Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan, Phone 00-962-2-7201000, Fax: 00-962-2-7095123 or 00-962-2-7095018; E-mail: msmadi@just.edu.jo

At Lund University, Lund, Sweden.

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- Doctor Susanne Heyden, Structural mechanics, Lund university, Lund, Sweden, Phone: 004646-2227374; Fax: 004646-2224420, E-mail: susanne.heyden@construction.lth.se (Ph.D. Thesis Co-advisor)
- Professor Göran Sandberg, Structural mechanics, Lund university, Lund, Sweden, Phone:004646-2228146; Fax: 004646-2224420, E-mail: Göran.Sandberg@construction.lth.se.
- Professor Per-Johan Gustafsson, Structural mechanics, Lund university, Lund, Sweden, Phone:004646-2224922; Fax: 004646-2224420, E-mail: Per-Johan.Gustafsson@construction.lth.se.
- Professor Per Erik Austrell, Structural mechanics, Lund university, Lund, Sweden, Phone: 004646-2224798; Fax: 004646-2224420, E-mail: Per\_Erik.Austrell@construction.lth.se.
- Doctor Kent Persson, Structural mechanics, Lund university, Lund, Sweden, Phone: 004646-2228152; Fax:004646-2224420, E-mail: Kent.Persson@construction.lth.se.