

Curriculum Vitae

Mohammed Shukri AL-Zoubi

Professor of Geotechnical Engineering

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PERSONAL

Name: Mohammed Shukri AL-Zoubi

Place and date of birth:

Zarqa/Jordan: 1-October-1964.

Marital status: Married with five children.

Languages: Arabic and English

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EDUCATION

- **2000 - Ph.D. Civil Engineering- Geotechnical Engineering.**

The University of Illinois at Urbana-Champaign, USA.

Dissertation: Stability of Embankment Dams Following Reservoir Drawdown.

Advisor: G. Mesri

- **1993 - MSCE. Civil Engineering- Geotechnical Engineering.**

Jordan University of Science and Technology - Jordan.

Dissertation: Effect of the physicochemical changes on the compressibility of a selected Azraq Green Clay.

Advisor: Waddah S. Abdulallah

- **1988 - BSCE. Civil Engineering- Structural Engineering.**

Yarmouk University - Jordan.

Senior Project: Design of Structures including Special Structures.

Advisor: Saad Salim

TEACHING EXPERIENCE:

A) Taught the following **undergraduate** courses

COURSE TITLE	
1	SOIL MECHANICS
2	SOIL MECHANICS LABORATORY
3	FOUNDATIONS: analysis and design
4	DAM ENGINEERING
5	RETAINING WALLS
6	STRENGTH OF MATERIALS
7	STATICS
8	ENGINEERING MECHANICS
9	REINFORCED CONCRETE I
10	ENGINEERING DRAWING
11	GEOLOGY FOR ENGINEERS
12	NUMERICAL METHODS
13	GRADUATION PROJECTS

B) Taught the following **graduate** courses (J.U.S.T.)

COURSE TITLE	
1	SOIL PROPERTIES AND THEIR MEASUREMENT (lectures and laboratory sessions)
2	RETAINING STRUCTURES

LABORATORY EXPERIENCES

- Worked in the Laboratory of the Civil Engineering at the Jordan University of Science and Technology from 1991 to 1993 during the MSCE program.
- Worked in the Geotechnical Engineering Laboratory at the University of Illinois at Urbana-Champaign from 1994 to 2000 during the PhD program.

EXPERIENCES:

- **September 2016** – present. Visiting professor of Civil Engineering, Applied Science Private University, Jordan.
- **September 2015** – **September 2016**. Visiting professor of Civil Engineering, Jordan University of Science and Technology, Jordan.
- **April 2015 - present**. Professor of Civil Engineering, Mutah University, Jordan.
- **Jan. 2010** – **April 2015**. Associate Professor of Civil Engineering, Mutah University, Jordan.
- **Oct. 2000 - Jan. 2010**. Assistant Professor of Civil Engineering, Mutah University, Jordan.
- **Sept. 2007- Sept. 2009**. Head of the Civil and Environmental Engineering Department, Mutah University, Jordan.
- **1994 - 2000**. Graduate Research Assistant, Dept. of Civil Engineering, the University of Illinois at Urbana-Champaign, USA.
- **1993/1994**. Construction Engineer, Mafraq, Jordan.
- **1990 - 1993**. Teaching Assistant, Dept. of Civil Engineering, Jordan University of Science and Technology.

HONORS/ SCHOLARSHIPS/ FELLOWSHIPS/ MEMBERSHIPS:

- **Ralf B. Peck Fellowship Receiver** for Excellence Achievement in Graduate level in Geotechnical Engineering, 1997: the University of Illinois at Urbana-Champaign, USA.
- **Fellowship Receiver** of the Civil Engineering Department, 1997/1998: the University of Illinois at Urbana-Champaign, USA.
- **Scholarship Receiver** of the Civil Engineering Department of Mutah University; 1994/1995 – 1997/1998.
- **Medal Award** for Excellence Achievement in the undergraduate level at Yarmouk University of Jordan (1988).
- **Medal Award** for Excellence Achievement in the Graduate level at Jordan University of Science and Technology (1993).
- **Participant** in the *Dam safety Technical Seminar*, Feb. 1998, Emergency Management Institute, Federal Emergency Management Agency (FEMA), USA.
- **Member** of the *Jordan Engineers Association (JEA)*, 1990-Present.
- **Reviewer** for International Journals (e.g., ACI Structural Journal; ASTM Geotechnical Testing Journal; Jordan Journal of Civil Engineering).
- Participated in **several committees** in the Department of the Civil and Environmental Engineering and Faculty of Engineering at Mutah University.
- **Certificate of appreciation** from Jordan Engineers Association (JEA) 2013 for supervising undergraduate senior project ranked second in the JEA competition of Civil Engineering projects in 2012.

PUBLICATIONS

Theses: MSCE and PH.D.

1. **Al-Zoubi, M. S., (1993).** Effect of physicochemical changes on the compressibility of a selected Azraq green clay. Thesis submitted in partial fulfillment of the requirements for the degree of Master of Science in civil engineering, Jordan University of Science and Technology, Jordan.
2. **Al-Zoubi, M. S., (2000).** Stability of Embankment Dams Following Reservoir Drawdown. Thesis submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy of science in civil engineering in the Graduate College of the University of Illinois at Urbana-Champaign, USA.

International Conferences

1. **Al-Zoubi, M. S. (2004).** Coefficient of Consolidation (c_v) from the linear segment of the $\delta_p - \sqrt{t}$ curve. *Proceedings of the International Engineering Conference at Mutah University: 26 - 29 April 2004, Karak - Jordan*, pp.1-13 of 556.
2. **Al-Zoubi, M. S. (2004).** Coefficient of consolidation from the deformation rate - deformation (DRD) method. *Proceedings of the International Conference on Geotechnical Engineering: 3 - 6 October 2004.* The University of Sharja, Sharja – United Arab Emirates, pp. 115 – 120.

International Journals

1. Abdullah, W. S., **Al-Zoubi, M. S.**, and Alshibli, K. A. (1997). On the Physicochemical Aspects of Compacted Clay Compressibility. *Canadian Geotechnical Journal*, **34**, pp. 551-559.
2. Abdullah, W. S., Alshibli, K. A., and **Al-Zoubi, M. S.**, (1999). Influence of Pore Water Chemistry on the Swelling Behaviour of Compacted Clays. Elsevier, *Applied Clay Science* **15** (1999) 447-462.

3. **Al-Zoubi, M. S. (2008)**, “Coefficient of Consolidation by the Slope Method,” *ASTM Geotechnical Testing Journal*, Vol. 31, No. 6, 5 pages.
4. **Al-Zoubi, M. S. (2008)**, “Swell Characteristics of Natural and Treated soils,” *Electronic Journal of Geotechnical Engineering*, Vol. 13, Bundle D, 1-18.
5. **Al-Zoubi, M. S. (2010)**, “Consolidation Analysis using the Settlement Rate-Settlement (SRS) Method,”. *Elsevier Applied Clay Science 50*, Issue 1 (September 2010) 34-40.
6. **Al-Zoubi, M. S., (2014)**. “Consolidation Analysis by the Modified Slope Method,”. *ASTM Geotechnical Testing Journal*, Vol. 37, No. 3, pp. 540-547.
7. **Al-Zoubi, M. S., (2014)**, “Coefficient of Radial Consolidation by the \sqrt{t} Inflection Point Method. *International Journal of Geotechnical Engineering* Vol. 9, No. 2, pp. 209-213.
8. **Al-Zoubi, M. S., (2014)** Settlement Rate-Settlement Method for Radial Consolidation (SRSM-RC). *ASTM Geotechnical Testing Journal*, Vol. 37, No. 5, pp. 907-916.
9. **Al-Zoubi, M.S., (2015)**. Shear Strength of RC Membrane Elements under Pure In-Plane Shear and Normal Stresses. *Elsevier Engineering Structures*. Vol. 101: 558-569.
10. **Al-Zoubi, M. S., (2015)**. Radial Consolidation Analysis by the Steepest Slopes observed in the $\delta_i - \log t$ and $\delta_i - \sqrt{t}$ Curves. *Asian Transaction on Engineering*, Vol. 5, No. 3: 24-28.
11. **Al-Zoubi, M. S., (2015)**. Vertical Consolidation Analysis by the Ratio of Steepest Slopes Method. *Electronic Journal of Geotechnical Engineering*, Vol. 20, Bund 19.

National Journals

1. **Al-Zoubi, M. S. (2008)**, “Undrained Shear Strength and Swelling Characteristics of Cement Treated Soil,” *Jordan Journal of Civil Engineering*, Vol. 2, No. 1, pp. 53-62.

2. **Al-Zoubi, M. S. (2008)**, “Consolidation Characteristics Based on a Direct Analytical Solution of the Terzaghi Theory,” *Jordan Journal of Civil Engineering*, Vol. 2, No. 2, pp. 91-99.
3. **Al-Zoubi, M. S. (2010)**, “Probabilistic Study of Lateral Earth Pressure on Retaining Walls with Wall Friction,”. *Abhath Al-Yarmouk: basic Sciences and Engineering*, Yarmouk University, Vol. 19, No. 1, pp. 17 - 36.
4. **Al-Zoubi, M. S. (2013)**, “Consolidation Analysis by the Slope and Settlement Rate - Settlement Methods,”. *Jordan Journal of Civil Engineering*, Vol. 7, No. 4, pp. 377-391.
5. **Al-Zoubi, M. S., (2014)**. "Diagonal Cracking Capacity and Ultimate Shear Strength of Slender RC Beams without Web Reinforcement". *Jordan Journal of Civil Engineering*, Vol. 8, No. 1, pp. 97-112.
6. **Al-Zoubi, M. S., (2015)**. Reliability-based determination of the coefficients of lateral earth pressure on retaining walls subjected to seismic loading. *Jordan Journal of Civil Engineering*, Vol. 9, No. 4.
7. **Al-Zoubi, M. S., (2015)**, “Consolidation analysis by the extended Taylor method (ETM)”. *Jordan Journal of Civil Engineering*, Vol. 9, No. 1, pp. 71-83.
8. **Al-Zoubi, M. S., (2016)**, “Shear Capacity of RC Membrane Elements Subjected to Pure In-Plane Shear Stresses”. *Jordan Journal of Civil Engineering*, Vol. 10, No. 3, pp. 324-338.
9. **Al-Zoubi, M. S., (2017)**, “Simplified Model for Diagonal Cracking Shear Capacity of Slender RC Beams without Web Reinforcement”. *Jordan Journal of Civil Engineering*, Vol. 11, No. 1, pp. 103-116.

MANUSCRIPTS UNDER REVIEW

1. **Al-Zoubi, M.S., (????)**. Coefficient of Consolidation by the Secant Slope Method. *ASCE International Journal of Geomechanics*.
2. **Al-Zoubi, M.S., (????)**. Coefficient of Radial Consolidation by the General Root Method. *ASCE International Journal of Geomechanics*.

CURRENT RESEARCH

1. *Shear Strength of reinforced concrete beams without web reinforcement.*
2. *Shear Strength of reinforced concrete beams with web reinforcement.*
3. *Extended Modified Compression field theory (EMCFT)*
4. *Consolidation characteristics of treated soils by lime, cement, calcium chloride.*
5. *Optimization in the design of retaining walls.*
6. *Consolidation analysis by the least squares method.*
7. *Radial consolidation analysis by the general root method.*
8. *Stability of embankment dams following reservoir drawdown.*