

Aslam A. Al-Omari

Contact Information:

Aslam Ali Al-Omari, Assistant Professor in Civil Engineering
[Jordan University of Science and Technology](#),
Jordan

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Personal Data:

Nationality : Jordanian
Marital Status : Married
Place of Birth : Jordan
Date of Birth : June 24th, 1972

Academic Qualification:

- Ph.D.** Civil Engineering; Pavement and Construction Materials (Nov. 2004)
[Texas A&M University](#), College Station, TX, USA
Dissertation Title: “Analysis of HMA Permeability through Microstructure Characterization and Simulation of Fluid Flow in X-Ray CT Images”
- M.Sc.** Civil Engineering; Transportation Division (Feb. 1998)
[Jordan University of Science and Technology](#), Irbid, Jordan
Thesis Title: “Interaction between urban planning, transportation system, and vehicle emissions in urban arterials”
- B.Sc.** Civil Engineering; Transportation and Materials Division (Jun. 1995)
[Jordan University of Science and Technology](#), Irbid, Jordan

Work Experience:

- A) [Academic](#) *see page 4*
- B) [Non-Academic](#) *see pages 5 and 6*

Teaching Experience:

- Land Surveying and its laboratory (2005/2006, 2006/2007, 2013/2014 and 2014/2015)
- Highways Geometric Design (2013/2014), (2014/2015)
- Materials of Construction and its laboratory (2005/2006 and 2006/2007)
- Statics (2005/2006 and 2006/2007)
- Strength of Materials (2005/2006 and 2006/2007)
- Applied Engineering Statistics (2005/2006)
- Structural Mechanics (For Architectural Engineering Students) (2006/2007)
- *Have the ability of teaching other transportation and pavement courses*

Research Interests:

Construction materials, bituminous mixtures, pavement design, pavement maintenance and rehabilitation, surveying and highway geometric design, highway and traffic safety, traffic analysis and design, transportation planning.

Awards:

- Winner of the 2nd place of the personal website contest/College level, [King Saud University \(KSU\)](#), 2008
- [The Association of Asphalt Paving Technologists \(AAPT\)](#) scholarship for 2002
- [Washington State University \(WSU\)](#) travel grant for 2002

Workshops and Conferences:

- [The big 5 Exhibition](#): Building the Middle East, The Dubai International Convention and Exhibition Centre, Dubai, United Arab Emirates (Nov. 2008)
- The 3rd Jordanian International Transportation Conference on Decision Making in the Transport Sector at the Holiday Inn Hotel, Amman, Jordan. (Mar. 2007)
- The 13th ACBM/NIST computer modeling workshop at building and fire research laboratory, administration building, National Institute of Standards and Technology (NIST), Gaithersburg, MD 20899 USA. (Jun. 2002)
- [The Association of Asphalt Paving Technologists \(AAPT\)](#) annual business meeting and technical sessions at Doubletree hotel, Colorado Springs, Colorado. (Mar. 2002)

Training Courses

- Development of Curriculum & Study Plans according to ABET, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, Jordan (11th, 13th, and 16th Mar. 2014)
- Leadership, Critical Thinking and Innovation: Igniting Creativity for Workplace Excellence, GLOMACS, Dubai, United Arab Emirates (10 – 14 Jan. 2010)

Affiliations:

- [Jordanian Engineers Association](#), Jordan

References:

1. [Awwad Kh. Al-Asmari](#), Professor of Electrical Engineering, Vice President for Graduate Studies and Scientific Research, [Salman bin Abdulaziz University](#), Al-Kharj, KSA
Office Phone: +966 1 4676814, E-mail: alasmari@ksu.edu.sa
2. [Eyad A. Masad](#), Professor of Civil Engineering, Assistant Dean for Research and Graduate Studies, [Texas A&M University at Qatar](#), Education City, PO Box 23874, Doha, Qatar.
Office Phone: +974 423 0268, E-mail: eyad.masad@qatar.tamu.edu
3. [Khaled Z. Ramadan](#), Associate Professor and Department Head, Department of Civil Engineering, [Applied Science University](#), Amman, Jordan.
Office Phone: +962-6-5609-999, Ext.: 1061, E-mail: ramadan66@asu.edu.jo
4. [Ahmed M. Ashteyat](#), Associate Professor, Department of Civil Engineering, [Yarmouk University](#), Irbid, Jordan.
Office Phone: +962-6-5609-999, Ext.: 1060, E-mail: aashteyat@yu.edu.jo
5. Eng. Ateeq Khamis Hamad Al Mazrouei, General Manager of [Western Region Municipality \(WRM\)](#), Abu Dhabi, UAE.
Office Phone: +971-2-8988-888, E-mail: ateeq@wrm.abudhabi.ae

Publications:***Journal Papers:***

1. Masad, E., [Al-Omari, A.](#), and Chen H. C. (2007). "Computations of Permeability Tensor Coefficients and Anisotropy of Hot Mix Asphalt Based on Microstructure Simulation of Fluid Flow", *Computational Materials Science*, **Vol. 40, No. 4, pp. 449-459**
2. Masad, E., [Al-Omari, A.](#), and Lytton, R. (2006). "Simple Method for Predicting Laboratory and Field Permeability of Hot Mix Asphalt", *In Transportation Research Record, Journal of the Transportation Research Board*, Washington, DC, **Vol. 1970, pp. 55-63**
3. [Al-Omari, A.](#) and Masad, E. (2004). "Three Dimensional Simulation of Fluid Flow in X-ray CT Images of Porous Media", *International Journal for Numerical and Analytical Methods in Geomechanics*, **Vol. 28, No. 13, pp. 1327-1360.**
4. Masad, E., Birgisson, B., [Al-Omari, A.](#), and Cooley, A. (2004). "Analytical Derivation and Numerical Simulation of Permeability and Fluid Flow Patterns in Hot Mix Asphalt", *Journal of Materials in Civil Engineering, ASCE*, **Vol. 16, No. 5, pp. 487-496.**
5. [Al-Omari, A.](#), Tashman, L., Masad, E., Cooley, A., and Harman, T. (2002). "Proposed Methodology for Predicting HMA Permeability", *Journal of the Association of Asphalt Paving Technologists*, **Vol. 71, pp. 30-58.**

Conference Papers:

1. [Al-Omari, A.](#), and Masad, E., (2005). "Analysis of HMA Permeability through Microstructure Characterization and Simulation of Fluid Flow in X-ray CT Images", *The First Middle East International Conference on Advances in Civil, Mechanical, and Materials Engineering*, May 10-13, Amman, Jordan.
2. Masad, E. and [Al-Omari, A.](#) (2004). "Predictions of HMA Permeability Using 3-D Microstructure Simulation of Fluid Flow", *International Conference on computational & Experimental Engineering & Sciences*, Madeira, Portugal.
3. Masad, E., and [Al-Omari, A.](#) (2004). "Simulation of Fluid Flow in X-Ray CT Images of HMA and Permeability Predictions", *Proceedings of the 17th Engineering Mechanics Conference, ASCE*, University of Delaware June 13-16, Newark, DE
4. [Al-Omari, A.](#) and Masad, E. (2004). "Three Dimensional Simulation of Fluid Flow in Granular Material Microstructure", *GEO2004: Advances in Geotechnical Engineering with Emphasis on Dam Engineering*, Irbid, Jordan, **pp. 177-190.**
5. Masad, E., Birgisson, B., [Al-Omari, A.](#), and Cooley, A. (2003). "Analysis of Permeability and Fluid Flow in Asphalt Mixes", *The 82nd Annual Meeting of the Transportation Research Board*, Washington, DC.

Work Experience:

A) **Academic:**

- Assistant Professor in the civil engineering department at [Jordan University of Science and Technology](#), Irbid, Jordan. (*Sep. 2013 – Now*)
- Assistant Professor in the civil engineering department at the College of Engineering in Al-Kharj, [King Saud University \(KSU\)](#), Kingdom of Saudi Arabia (KSA). (*Sep. 2007-Sep. 2008*)
In addition to teaching, responsibilities included, but not limited to, the followings:
 - ◆ Preparing the study plan for the Civil Engineering Department
 - ◆ Preparing and developing different Civil Engineering Laboratories
 - ◆ Serving as the College Website Supervisor at KSU Portal (Al-Bawaba)
 - ◆ Establishing some other different facilities in the College
- Assistant Professor in the civil engineering department at the [Applied Science University](#), Amman, Jordan. (*Sep. 2005-Sep. 2007*)
- Research assistant and Ph.D. student, civil engineering department, [Texas A&M University, Texas](#), USA. (*Jan. 2003-Dec. 2004*)
- Research assistant and Ph.D. student, civil engineering department, [Washington State University](#), Washington State, USA. (*May 2001-Dec. 2002*)
- Civil engineering teacher at Dubai Technical Secondary School under the supervision of the Germanic Institution (GTZ), Dubai, United Arab Emirates. (*Sep. 1998-Sep. 2000*)
- Teaching assistant, civil engineering department, the [Applied Science University](#), Amman, Jordan. (*Feb. 1998-Aug. 1998*)
- Teaching assistant, civil engineering department, [Jordan University of Science and Technology](#), Irbid, Jordan. (*Sep. 1995-Feb. 1998*)

Work Experience:

B) Non-Academic:

➤ *Affiliation:*

[The Western Region Municipality \(WRM\)](#) of Abu Dhabi in Zayed City (Madinat Zayed), Abu Dhabi Emirate, United Arab Emirates (UAE).

➤ *Position:*

[Head of Earthworks Section \(May 2010 till May 2013\)](#)

About the Section:

Earthworks section is responsible of performing all the earthworks (cutting, filling, and leveling of lands, and constructing and maintaining of access roads) that are required for the existing and new residential areas, farms, camel manors (EZAB), camel race locations in the western region of Abu Dhabi Emirate. The section carries out these earthworks for either Emirati individuals, or other governmental and private sectors through registered local contractors.

Responsibilities:

- Achieving effective use of all section resources
- Aligning the employees' individual objectives with the objectives of the [WRM](#) in order to achieve long term success for the Municipality
- Communicating the WRM vision to all section employees
- Finding a suitable solution for any work-related problem that faces anyone of the section employees
- Resolving conflicts among the employees and try to reach at an acceptable solution which will improve employees work quality and performance
- Following up carrying out the work to make sure that the contractors are working professionally and as required
- Directing and regulating the work of all section employees (more than eighty employees) including engineers, land surveyors, quantity surveyors, inspectors, and administrative assistants

Achievements:

- Developed a work policy for the Earthworks section after which the work system became well-organized
- Developed a policy for distributing the section's work orders among the registered local contractors in an organized way. Distribution of work orders now covers all the registered local contractors while in the past it covered just few of them
- Developed a mathematical method using which all the registered local contractors are to be classified into several categories based on the contractor's abilities and their owned cars and equipment
- Started a study on the identification of good-quality Gatch (a local limestone material that is mostly used in the Gulf countries in constructing improved access roads). This study needs to be further investigated and completed

➤ *Position:*

[Acting Head of Construction Materials Laboratory \(Oct. 2008 till May 2013\)](#)

About the Laboratory:

WRM's construction materials laboratory is a small one that was not upgraded due to some organizational issues in the WRM. Types of testing used to be performed in the laboratory mainly included: field testing of soil, testing of coarse and fine aggregates, testing of bricks, blocks, tiles, and interlocking tiles, and testing of concrete cubes

Responsibilities:

- Managing the laboratory team inside the laboratory as well as on site.
- Supervising all delivery operations, making sure that the product exceeds specifications at all time.
- Communicating laboratory test results to the project specifications
- Handling all technical reports and related issues
- Monitoring finished product compliance, Laboratory & production equipment for calibration
- Generating non-conformities, Audit reports, and Quality management reviews
- Directing and regulating the work of the Laboratory employees

➤ *Committees:*

- Regulatory committee for the Distribution of the Work Orders in the Earthwork Section (*Committee Head, Feb. 2010 till May 2013*)
- Prequalification Committee of all Consultants and Contractors who would like to work for the Infrastructure Sector at WRM (*Committee First Vice Head, Sep. 2010 till Mar. 2011*)
- Material Receiving and Approval Committee (*Committee Head, Dec. 2010 till May 2013*)
- Registration, Prequalification, and Reclassification Committee of Earthwork section's Contractors (*Committee Head, Jan. 2011 till May 2013*)
- WRM Inspection Committee (*Committee Head, Nov. 2011 till May 2013*)
- The Integration and Consolidation of Abu Dhabi Testing Laboratories into a Central Testing Laboratory belongs to [Abu Dhabi Quality and Conformity Council \(QCC\)](#) (*Committee Member, Feb. 2011 till May 2013*)
- Management of Abu Dhabi Quarries (*Committee Member, Mar. 2011 till May 2013*)
- The [QCC](#) Standing Technical Committee (Energy, Water, Waste, Built Environment) (*Committee Member, Mar. 2012 till Sep. 2013*)

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