

CURRICULUM VITAE

Zaydoun T. Abu Salem

Civil and Infrastructure Engr. Dept. /Faculty of Engr. & Technology

Al-Zaytoonah University of Jordan

Amman, 11733

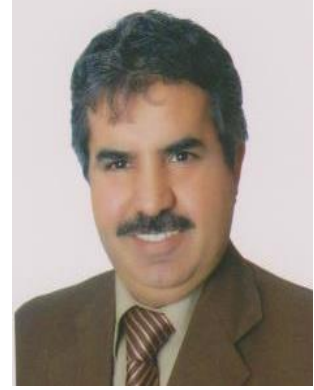
PO Box 130

Phone: (962) 6 429-1511, Ext.148

Fax: (962) 6 429-1432

Email: zaydoun1@gmail.com , zaydoun@zuj.edu.jo

Homepage: <http://www.zuj.edu.jo/portal/>



1. Personal Data

Date of Birth: March 17, 1967

Nationality: Jordanian

2. Education

- Ph. D., Civil, Water Resources and Environmental Engineering, 2007
Louisiana State University (LSU), Baton Rouge, LA, USA
- Master of Science, Civil, Water Resources and Environmental Engineering, 1991
Jordan University of Science and Technology, Jordan
- Bachelor of Science, Civil, Water Resources and Environmental Engineering, 1988
Jordan University of Science and Technology, Jordan.

3. Ph.D. Dissertation

Title of Dissertation, "Flow and Distribution of Water in Fractional Wettability Unsaturated Porous Media", Louisiana State University (LSU), Baton Rouge, LA, USA



QF11/0110 - 3.0E

Curriculum Vitae Form

4. Employment

Academic Positions

- Assistant Professor in the Civil Engineering and Infrastructure Department, Al-Zaytoonah University of Jordan, Amman, Jordan, 2/2017- now.
- Head of Civil and Infrastructure Engineering Department, Assistant Professor, Al-Zaytoonah University of Jordan, Amman, Jordan, 9/2015- 2/2017.
- Assistant Professor in the Civil Engineering and Infrastructure Department, Al-Zaytoonah University of Jordan, Amman, Jordan, 9/2014- 9/2015.
- Head of the Civil Engineering Department, Assistant Professor, Philadelphia University, Amman, Jordan, 8/2011- 9/2014.
- Dean of the Engineering Department, Assistant Professor, Jerash University. Jerash, Jordan, 8/2010- 2011.
- Head and Faculty Adviser of the Civil Engineering Department, Assistant Professor, Jerash University. Jerash, Jordan, 8/2008- 8/2010.
- Geotechnical Project Engineer; Tolunay-Wong Engineers, Inc.' Houston, Texas, USA, 8/2007- 8/2008; Experience in the field of Geotechnical Engineering; management of projects, proposal development, contract negotiations, project planning and budgeting.
- Geotechnical and Construction Material Engineer; Louisiana Transport Research Center (LTRC), Baton Rouge, Louisiana, USA, 2003- 2005.

Administrative Positions

- Head and Faculty Adviser of the Civil Engineering and Infrastructure Department, Assistant Professor, Al-Zaytoonah University of Jordan, Amman, Jordan, 9/2015- 2/2017.
- Head and Faculty Adviser of the Civil Engineering Department, Assistant Professor, Philadelphia University, Amman, Jordan, 8/2011- 9/2014.
- Dean of the Engineering Department, Assistant Professor, Jerash University. Jerash, Jordan, 8/2010- 2011.
- Geotechnical Project Engineer; Tolunay-Wong Engineers, Inc.' Houston, Texas, USA, 8/2007- 8/2008; Experience in the field of Geotechnical Engineering; management of projects, proposal development, contract negotiations, project planning and budgeting.
- Graduate Research Assistant, Louisiana State University, Baton Rouge, LA, 2001-2007.
- Graduate Research Assistant in the civil and environmental engineering department, Jordan University of Science and Technology, Jordan, Jordan, 1999-2001.
- Consultant civil and environmental engineer in department of environment and rural affairs, Jordan, 1995-1999.



QF11/0110 - 3.0E

Curriculum Vitae Form

- Field and Supervisor Engineer, Aqaba Ports Corporation, Jordan, 1991-1995.

5. Research Interests

- Water Resources, Hydraulics, Fluid dynamics, Environmental Engineering
- Soil and Geotechnical Engineering.
- Environmental Soil Physics
- Surveying and Geometric Engineering
- Traffic and Transportation Engineering
- Micro tomography Applications in Studies of Flow Through Porous Media
- Groundwater modeling and applications
- Watersheds urban planning studies

6. Membership in Scientific Societies and Associations

- American Society of Civil Engineers.
- Environmental and Water Resources Institute
- Jordanian Engineers Association.
- Jordanian Environmental Association.

7. Honors and Awards

None

8. Fellowships and Scholarships

None

9. Teaching Experience

- *Undergraduate Courses*
 Fluid Mechanics,
 Sanitary Engineering,
 Environmental Engineering and Design,
 Environmental Engineering Lab,
 Hydraulics,
 Groundwater Hydraulics,
 Hydraulic Engineering Lab,
 Infrastructure Networks,
 Water Engineering;
 Water Resources Engineering
 Hydrology,
 Water and Wastewater Engineering,
 Soil Mechanics,
 Geotechnical Engineering,



QF11/0110 - 3.0E

Curriculum Vitae Form

Geotechnical Engineering Lab,
 Surveying
 Surveying Lab,
 Transportation Engineering
 Transportation Engineering Lab,
 Route Surveying and Design,
 Roads Design,
 Pavement Design
 Pavement Lab,
 Contracts, Specifications & Quantity Surveying,
 Dam Engineering,
 Engineering Ethics,
 Engineering Economics,
 Material Science,
 Construction Materials,
 Construction Materials Lab
 Engineering Communication Skills.

10. Supervision of Graduate Research

None

11. Grants

None

12. Patents

None

13. Membership of Committees

- American Society of Civil Engineers
- Environmental and Water Resources Institute
- Jordanian Engineers Association
- Jordanian Environmental Association

14. Professional and Scientific Meetings***Scientific Meetings Organized***

Provide bulleted or numbered list with name of conference or symposium or workshop etc., place, and date

Participation in Scientific meetings

Provide bulleted or numbered list with name of conference or symposium or workshop etc., place, and date



15. Participation in or organization of curricular and/or extra-curricular activities

- International Conference on Geomechanics, Geo-energy and Geo-resources, Melbourne, Australia, 28-29 September 2016.
- 17th International Conference of Civil Building Engineering, Montreal, Canada, May 11-12, 2015.

16. Publications

- Raed Abendeh, Mousa Bani Baker, **Zaydoun T. Abu Salem**, Hisham Ahmed, The Feasibility of Using Milled Glass Wastes in Concrete to Resist Freezing-Thawing Action, (The paper is available at: <http://waset.org/publications/10001989/the-feasibility-of-using-milled-glass-wastes-in-concrete-to-resist-freezing-thawing-action>) July 2015
- **Zaydoun T. Abu Salem**, Taisir S. Khedawi, Raed Abendeh, & Mousa Bani Baker, Effect of Waste Glass on Properties of Asphalt Concrete Mixtures, Jordan Journal of Civil Engineering, Volume 11, No. 1, 2017.
- **Zaydoun T. Abu Salem**, Taisir S. Khedawi, Raed Abendeh, & Mousa Bani Baker, Mechanical Properties of Concrete Containing Waste Glass, Jordan Journal of Civil Engineering, Volume 12, No. 2, 2017.
- Altarawneh, K.K.; Buzzi, O.; Sloan, S.W.; Abu Zaher, H.S.; Gaudin, C.; Jaradat, A.Q.; **Abu Salem, Z.T.** and Altarawneh, M.K., Derivation of scaling relationships for heat transfer in geothermal energy applications, International Conference on Geomechanics, Geo-energy and Geo-resources, Melbourne, Australia, 28-29 September 2016.
- Nabil Hazim, **Zaydoun Abu Salem**, Hisham Ahmed SALEH, Delay and Cost Overrun in Infrastructure Projects in Jordan - International Conference on Engineering Project, and Production (EPPM2016) - September 19-23, Bialstok, Poland, 2016.
- Baker, M.B., Abendeh, R., **Salem, Z.A.** Production of sustainable Asphalt Mixes Using Recycled Polystyrene, International Journal of Applied Environmental Sciences, 11(1), 2016.
- Nabil Al-Hazim, **Zaydoun Abu Salem**, Delay and cost overrun in road construction projects in Jordan, International Journal of Engineering & Technology, Vol 4, No 4, 2015.
- Ahmad Qasaimeh, Malik Qasaimeh, Zaydoun Abu Salem, Khalid Melhem, Falah Bani Hani and Mohammad Raji Abdallah/Qasaimeh. Adaptive Sugeno Fuzzy Clustering System for Intelligent Monitoring of Inorganic Materials in Wastewater Aeration Tanks. Research Journal of Environmental Toxicology, 9: 290-304, 2015.
- Raed Abendeh, Mousa Bani Baker, **Zaydoun Abu Salem**, Hesham Ahmad, The Feasibility of Using Milled Glass Wastes in Concrete to Resist Freezing-Thawing Action, World Academy of Science, Engineering and



QF11/0110 - 3.0E

Curriculum Vitae Form

- Technology International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering Vol:9, No:8, pp.832-835, 2015.
- **Zaydoun Abu Salem**, Nabil Hazim, Effect of Vehicular Speeds, Traffic Volume, and Road Grades on Air Pollution in Amman City (Case Study), 7th Traffic Safety Conference, Amman, Jordan, <http://www.psd.gov.jo/images/jti/images/011.pdf>, 2015.
 - Baker, M.B., Abende, R., **Salem, Z.A.** and Ahmad H. The Engineering Properties of Jordanian Marble, the 17th International Conference of Civil Building Engineering, Montreal, Canada, May 11-12, 2015.
 - Ahmad Qasaimeh, Mohammad Qasaimeh, **Zaydoun Abu Salem**, Mohammad Momani, Solar Energy Sustainability in Jordan, Computational Water, Energy, and Environmental Engineering, Vol.3 No.2(2014), Article ID:44840,7pages, DOI:10.4236/cweee., 2014.
 - **Abu Salem, Z.** and C.S. Willson, Experimental Investigation of Drainage in Fractionally-wet Sands in mm- and cm-scale Columns, Characterization, Monitoring and Modeling of GeoSystems, Proceedings of Selected Sessions of the GeoCongress 2008: The Challenge of Sustainability in the Geoenvironment, GSP NO. 179, edited by Alshawabley, Reddy and Khire, 292-299, doi: 10.1061/40972(311)37, 2008.
 - **Zaydoun Abu Salem**, S.M. ASCE. and Clinton S. Willson, Experimental Investigation of Drainage in Fractionally-wet Sands in mm- and cm-scale Columns, A.M. ASCE, P.E., A.M.ASCE pp. 292-299, (doi 10.1061/40972(311)37) conference paper, 2007.
 - **Abu Salem, Z.** Flow and Distribution of Water in Fractional Wettability Unsaturated Porous Media. Zaydoun Abu-Salem¹, S.M. ASCE. and Clinton S. Willson², A.M. ASCE, P.E., conference paper, 2007.
 - **Abu-Salem, Z.** Flow and Distribution of Water in Fractional Wettability Unsaturated Porous Media, Ph.D. Dissertation, Louisiana State University, 187 pp, 2007.
 - Al-Raoush, R.I., **Z. Abu-Salem**, C.S. Willson, Characterization of Non-wetting Phase Fluids in Porous Media Systems Using High-resolution, Three-dimensional, Synchrotron X-ray Microtomography, Proceedings of the 2003 American Chemical Society 225th ACS National Meeting, New Orleans, LA, March 23-27, 2003.
 - **Zaydoun Abu Salem**, Theories and experimental studies of the effect of combining Municipals on performance, Yarmouk University Publications, 1999.
 - **Zaydoun Abu Salem**, Discharge Measurements in Confined Aquifers. Jordan University of Science and Technology Publications, 1992.