

## Curriculum Vitae

### Current Address

University of Sharjah  
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<b>Name</b>	:	ALI AHMAD TAHMAZ
<b>Date Of Birth</b>	:	1964
<b>Nationality</b>	:	Jordanian
<b>Social Status</b>	:	Married

### Education

M.Sc. : Civil Engineering (Geotechnical Engineering),  
June 1992, Jordan University for Science and Technology.

B.Sc. : Civil Engineering, (Structural Engineering),  
February 1989, Jordan University for Science and Technology.

### Certified Training :

- Attending three seminars, training on two new software. Those are on **STAAD Pro** and **ADAPT** softwares. Held at Sharjah University November 2004.
- **Total Quality Management** training course (TQM) given by CREATIVITY CENTER. Held at Abu Dhabi from 30th October to 2nd November 1999.
- **Soil & Concrete Testing** course given by NATIONAL CENTER FOR MANAGEMENT & TRAINING. Held at Abu Dhabi from 21 to 25 November 1998.
- **Introduction to Quality Assurance** Seminar. Held in Abu Dhabi 25 November 1997.
- **Computer Fundamentals and applications** course (M.S. Dos, M.S. Windows, M.S, Word & M.S. Excel) given by AL KHASNA FOR MANAGEMENT & SCIENCE, held at Abu Dhabi 31 May to 10 July 1995.

- **Proficenal Project Management** course given by NATIONAL CENTER FOR MANAGEMENT & TRAINING. Held at Ajman from 21 to 25 November 2008
- Attending a seminar, **Pile Integrity And Rehabilitation Of Concrete**. Held at the courtyard by Marriott, Dubai on 6<sup>th</sup> February 2012.
- **Computional Geotechnics** this course entitles for 22 professional development hours by Plaxis at American Univesity in Dubai held on 30<sup>th</sup> March to 1<sup>st</sup> April 2014

### **Registration:**

Registered Civil Engineer, Jordan Engineers Association.

### **Communication Languages:**

Excellent Commnication and Writing Skills in Both Arabic and English.

### **SUMMARY OF PRACTICAL EXPERIENCE**

Over 25 years of experience in the engineering fields distributed over teaching and providing consulting and contracting services for various types of projects in view of

- Developing local order and its executive list to control quality of production to all concrete batch plant in Ajman Emirate.
- Teaching for different subjects in Civil Engineering disciplines focused on Geotechnical, Materials and Environment
- Participate in preparing ABET accreditation documents for Civil Engineering Department at Sharjah University.
- Construction, Site investigation, and Foundation Analysis & Design.
- Preparing Quality Assurance System, ordering Equipments, procedures for implementing testing, maintenance procedures, history of equipment...etc.
- Geotechnical & Material Lab Management.
- Evaluate different types of geotechnical problems from different perspective.
- Auditing and evaluating Abu Dhabi laboratories qualifications which work for Public Work Department.
- Applying special studies and Quality Control.
- Evaluation of existing concrete buildings.
- Performing tender analysis, conducting contract negotiation and project awarding, supervising construction progress, completion and commissioning.
- Conducted technical consultations on Durability of concrete structures exposed to the harsh environment of the Gulf, Autoclave Aerated Concrete (AAC).

- Geo-environmental investigations of landfills, including sub-soils, waste, and groundwater investigations.
- Development and feasibility assessment of landfill site remediation alternative.
- Involvement in solving of liquefaction problems in Palm Island by suggesting suitable studies and solutions for that case.
- Study of marine sediment characteristics.
- Monitoring of Water Quality in Khalid and Al-Khan Lagoons & Surrounding Coastal Areas.
- Teaching of technical subjects in the Geotechnical field.
- Development of geotechnical testing protocols for professional and educational purposes.
- Participate in geotechnical studies either individually or in team in many major and essential projects in UAE, such as Grand Mosque, Khalifa city A, Al Raha Beach Project, Al Zawra'a, Etisalat towers, Many high rise buildings, infrastructures projects ...etc.

## Experiences

**Lecturer** : September 2011 up to present, Sharjah University, Sharjah, UAE

### **Responsibilities:**

- Teach and assist in different courses and laboratories which are Geotechnical Engineering, Foundation Engineering, Introduction to Engineering, Statics, Statistics, Traffic, Transportation, Individual Projects, Senior Design Projects (I&II) Geotechnical and Material Laboratories.
- Reviewing some Journal papers related to different topics in geotechnical and foundation engineering.
- Update of Materials and Geotechnical Lab course contents by adding new experiments.
- Co-coordinator for senior design project I & II.
- Reviewing and editing thesis related to geotechnical discipline.
- Act as laboratory manager to follow up the Civil Engineering laboratories needs and development by ordering and updating equipment, provide training to laboratories staff.
- Supervision of laboratories, sessions and lectures preparation, and laboratory reports.
- External project assessment for evaluating, studying and analysis purposes to achieve proper solutions based on analytical approaches.
- Seeking for effective objectives to enhance courses and labs, so that, students achievement could be raised by developing teaching and transferring information techniques to them. Give some projects concentrate on the practical applications and very close to some real cases in UAE.
- Also, a comprehensive plan was made to extend the lab experiments to cover some essential field tests that considered the soul of practical applications for most of these projects.
- Develop some research which can be considered essential for benefit of public and private sectors

**Laboratory Manager / Senior Geotechnical & Material Engineer :**  
June 2009 up to September 2011, Gulf Laboratory for Soil Investigation, UAE

**Responsibilities:**

To look after the company's assets and to run the company in the most profitable and successful way for the benefit of its shareholders by controlling all administrative and technical issues, planning and ordering required assets, tools and equipment needed to run the different types of tests matching the market needs in relation to company activities which mainly belong to soil investigation, construction materials, geotechnical studies and concrete buildings evaluation. Enhance the development of the laboratory and build up its quality assurance system by selecting the appropriate laboratory personnel and improve their abilities and knowledge related to the soul of required tests in different fields (concrete, soil, steel, aggregate, asphalt, soil investigation and special testing).

Utilizing my experience gained on a broad range of material and geotechnical problems principally in connection with bearing capacity for different foundation types and design (shallow & deep), procedural statements, slope stability, earthworks design reports and interpretative reports for such schemes.

**Laboratory Manager / Senior Geotechnical & Material Engineer :**  
October 2007 up to June 2009, Municipality and Department Planning, Ajman, UAE

**Responsibilities:**

Holding all administrative and technical issues in different units of the laboratory. Planning and ordering required assets, tools and equipment needed to run the different types of tests belong to soil investigation and construction materials. Coordinate, support, and continuously assess and monitor the development of the laboratory and build up its quality assurance system. Orient, laboratory personnel regarding the principles and practices of quality management and other related topics and build up their knowledge related to the soul of required tests in different fields (concrete, soil, steel, aggregate, asphalt, soil investigation and special testing).

Utilizing my experience gained on a broad range of material and geotechnical problems principally in connection with bearing capacity for different foundation types and design (shallow & deep), procedural statements, slope stability, earthworks design reports and interpretative reports for such schemes.

Provide the different departments in the municipality with fully technical support for their different types of projects. Sharing in different committees such as concrete committee for evaluating concrete plants and technical committee for General Secretariate of Municipalities

**Managing Director / Senior Geotechnical & Material Engineer :**  
July 2005 up to October 2007, Matrix Laboratory, Abu Dhabi, UAE

**Responsibilities:**

Establishing the laboratory from the stages of planing and construction. Select and brought all required equipment for running geotechnical investigation, material (soil and concrete) and chemical divisions. Recruitment

of all staff technical and administrative for the required position in the laboratory.

Holding all administrative, financial and technical issues. Possessing of excellent management experience and a proven ability of successful business development, consistently achieving significant year-on-year growth. Accomplished in training and motivating all involved staff in work to provide a high level of customer service. Believing that good team leadership and a hands-on approach to management brings increased standards and profits.

Performing technical, financial and managerial activities in the branch, including, preparing test certificates for pile testing, aggregates, soils, asphalt & concrete, preparing concrete and asphalt mix designs, preparing soil investigation reports, reviewing all technical reports and approval, reviewing all financial reports and approval. Performing all public relation responsibilities, following up on any technical or contractual difficulties with clients. Performing analysis such pricing, promotions, and raises in salaries, future work forecasts,...etc. Directing Quality Assurance Program in accordance with ISO 9001.

**Lecturer** : September 2000 to June 2005, Sharjah University, Sharjah, UAE

#### **Responsibilities:**

Teach and assist in different courses and laboratories which are Geotechnical Engineering, Foundation Engineering, Introduction to Engineering, Statics, Statistics, Traffic, Transportation, Individual Projects, Senior Design Projects (I&II) Geotechnical, Fluid and Material Laboratories. Reviewing some Journal papers related to different topics in geotechnical and foundation engineering. Supervision of laboratories, sessions and lectures preparation, grading of exams and laboratory reports. Courses assessment was made to evaluate the achievement of objectives among the students and getting their honest opinion to improve and enhance courses and labs. So that, students achievement could be raised by developing teaching and transferring information techniques to them. Give some projects concentrate on the practical applications and very close to some real cases in UAE. Also, a comprehensive plan was made to extend the lab experiments to cover some essential field tests that considered the soul of practical applications for most of these projects. Responsibilities extended to and summarized in the following

- Tutorial sessions designed to improve students understanding of the course topics supported by scheduled office hours.
- Opened different channels of communication between students and I to maximize assistance ( i.e telephone no., E-mail address) .
  - Keep them in touch with practical field activities within the given course topics.
  - Enhance and simplify the understanding of complex theoretical facts with lab activities.
- Practical application from real field data were presented and discussed to enhance the understanding of each project.
- Field trips to activate the link between theoretical education part and practical applications.

- Preparing course files presenting all materials covered in each course delivered.
  - Reviewing the course topics and guiding the students to read other related text books exist in the college library.
  - Help in preparing some models, which aid to improve the abilities of students to understand the theoretical part in the courses.
  - Academic Advising for 2002 & 2003 students.
  - Preparing inventory of laboratory equipment which also included checking and receiving these equipment.
  - Assisting in the preparation of specifications of some newly purchased equipments for geotechnical laboratory.
  - Help to improve and provide enhance effect on the lab, research and consultancy Objectives.
  - Preparing price list of some material and soil test.

**Senior Geotechnical/Material Engineer- QC/QA :**  
 March 1998 to September 2000, Public Works Department (PWD), Abu Dhabi, UAE.

**Responsibilities:**

**1. Quality (QA & QC) :**

- Prepare plans and system that necessary to provide confidence in the entire experimental process and global work is operating within acceptable limits and standards under established mechanism to measure non-conforming method performance and clearly described in standard operating procedures which are periodically reviewed for updates. Assure and confirm that each staff member meet performance criteria before performing a test. Also, each instrument is operated by trained staff members. Maintenance logbooks are kept for each instrument. The instruments are calibrated according to manufacturer guidelines and in accordance to the relevant standard either externally or in house calibration. Continuous checking and updating of instruments calibration and material reference. Examine the internal system and accuracy of measurement by evaluating the results of proficiency testing and quality control.
- Auditing and evaluating of private laboratories for the purpose of accreditation to work for public work department (PWD). QA manual, QC procedures, equipment, lab environment..etc. were checked and evaluated in view of PWD roles and regulation and according to relevant standard.

**2. Site investigation and Laboratory Testing**

- Ensure that all staff are trained and experienced, in their discipline to perform their duties in a satisfactory manner in accordance to specified standard. Teaching and training new joined engineers in performing tests & reports (From all sections of departments such as roads, buildings etc.)

- Prepare list for purchasing all necessary equipment & tools required for different type of soil testing (Lab & Field testing equipment) in order to maintain quality of work at a high level of standard.
- Review and approval of all technical reports.
- Follow-up and supervision of operating matters of soil investigation such as daily drilling program which consist of field testing (SPT, CPT, Vane Shear, pressure meter ..etc.) required depth of boring & method of drilling (Percussion, Auguring or Rotary). As continuity of above work prepare the laboratory testing program on geotechnical basis.
- Making and preparing of geotechnical reports for various types of projects with different requirements depend on type of the project and soil investigations results.
- Preparing the forms of all kind of soil testing (work sheets & result sheets) according to the standard specifications (BS, ASTM, AASHTO, DIN ...etc.).
- Making some computing applications sheets using Microsoft Excel to help in calculating & preparing the results for reporting purpose.

**Senior Geotechnical/Material Engineer :**

October 1993 to March 1998, Arab Center For Engineering Studies, Abu Dhabi,UAE.

**Responsibilities:**

**1. Soil and Material testing:**

- Responsible for training new engineer on analyzing, interpreting and reporting test results.
- Training technicians & drillers on using, handling and maintaining of new equipment.
- Prepare program of tests, which are required by the clients or according to National or International, standards.
- Supervision of drilling, sampling & field-testing.
- Ensure the laboratory test programs and tests are carried out in accordance with National, International (BS, ASTM..etc.) or approval in-house method.
- Supervision of laboratory testing on soil & rocks.
- Reviewing of general test procedure, worksheets and report sheets in accordance to latest standard specification.
- Prepare reports and analysis of test results in accordance with the requirement, parameters, and specification of the project.
- Discuss the test results and suggest recommendation to the clients, if necessary.
- Provide recommendations on proper drainage and dewatering systems, calculations and proper approach according to soil types.
- Performed evaluation/investigation of existing concrete building/structure
  - i. Conduct field and laboratory investigation in the structures.
  - ii. Performing engineering analysis of the findings.
  - iii. Develop conclusions regarding the present state of the structure, cause and extends of damage.
  - iv. Developing recommendation to aid in adopting the appropriate repair options and protection of the structures.

- Performing sonic integrity, testing of piles in the site then interprets, evaluate and analyze the signals obtained from the piles. Finally make report and recommendations as required.
- Prepare list for purchasing all necessary equipment & tools required for different types of soil testing ( lab & field) in order to maintain quality of work at a high level of standard.
- Follow-up piling works.
  - i. Ensure that the required bearing stratum was reached and that subsurface materials and conditions do not deviate appreciably from the findings of soil investigation report and the design assumptions.
  - ii. Taking needful actions to be applied, in case any deviation of the subsurface materials and conditions differ from those obtained in the soil investigation report.
  - iii. Ensure that all works done in the field such as drilled hole, steel reinforcement, concrete and boring method of concrete & vertically... etc. are matching and in accordance to standard specification of the project requirements. In addition, make all the required tests to ensure the quality of materials used.
  - iv. Supervision of loading test to some selected piles and interpret, analyze, and discuss the obtained data test results, finally prepare the report which contains the observation, comments, final test results and recommendations.

## **2. Quality Assurance System(QC/QA):**

I have participating in creating the above system as follows:

- i. Preparing the forms of preventive & corrective maintenance of equipment.
- ii. Prepare the forms & make all in-house calibration as per required international standard.
- iii. Prepare the forms of purchasing orders of new equipment
- iv. Prepare the forms of acceptance of new equipment.
- v. Prepare the inventory list of lab and field equipment.
- vi. Starting in implementing all plans pertained to internal audit, training, internal quality control, preventive maintenance, in-house calibration & quality system review.

**Site Engineer** : August 1992 to July 1993, Ministry of Public Works & Housing, Jordan.

### **Responsibilities:**

- Supervision construction of some buildings (post office, schools & hospital).
- Control the performing of all construction work in accordance to the project specification and making the required test to assure quality of work.
- Review all admitted monthly bills of constructed works from the contractor and compare it with the contract documents from financial and specification requirements after checking up all the real work in the field.



**Teaching Assistant** : September 1989 to May 1992, Jordan University for Science & Technology

during the period of achieving my M.Sc. degree. Supervision of soil and geology laboratories, grading of exams and laboratory reports. Assisting and teaching in static course and engineering drawing.

**Construction Supervisor** : March 1989 to July 1992, Khalid Khlifat Company in Jordan.

**Responsibilities:**

- Follow-up some company work (Such as small villas & 4- story buildings), guiding & planning the construction works done by the company site engineer & foreman. Make evaluation and pricing of all applied tenders by the company. Help in solving the problems created due to constructions & performing of the works.

## RESEARCH PUBLISHED WHILE WORKING AT UOS

### A. Book chapters

No.	Book Chapters
1	Maher Omar, Abdallah Shanableh, Samar Abduljalil, Khaled Hamad, Mohamed Arab, Moussa Leblouba, <b>Ali Tahmaz</b> . (2019) Geotechnical Mapping of Seismic Risk for Sharjah City, United Arab Emirates. In: Pradhan B. (eds) GCEC 2017. GCEC 2017. Lecture Notes in Civil Engineering, vol 9. Springer, Singapore, <a href="https://doi.org/10.1007/978-981-10-8016-6_83">https://doi.org/10.1007/978-981-10-8016-6_83</a>
2	M. Omar, K. Hamad, A. Shanableh, and <b>A. Tahmaz</b> . (2018) Efforts to Maximize the Success of Students on Probation. In: A. Shanableh, K. Hamad, M. Omar, and M. Bettayeb (Eds) Advances in Engineering Education, pp. 53-59, ISBN 978-9948-24-127-0, University of Sharjah
3	Mohamed Arab, Maher Omar and <b>Ali Tahmaz</b> , Numerical Analysis of Shallow Foundations on Geogrid Reinforced Soil. In: MATEC Web of Conferences, Volume 120 (2017), International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17), Sharjah, United Arab Emirates, April 18-20, 2017, A. Shanableh, M. Maalej, S. Barakat, M. Omar, S. Al-Toubat, R. Al-Ruzouq and K. Hamad (Eds); ISBN 2261236X.

### B. Latest Published Papers

No.	Title of paper & and authors in order	Journal Name	Sustainability Related If sustainability related please insert max. of 3 keywords, see footnote please	Journal		
				Volume	Number	Year
1	Al-Sadoon, Z., Alotaibi, E., Omar, M., <b>Tahmaz, A.</b> , & Arab, M. G. (2023). Effect of rock rating systems Q, RMR, and GSI on tunneling squeezing prediction using machine learning.	Geotechnical and Geological Engineering		<b>Accepted</b> <b>IF 1.9 (A) - Scopus</b> <b>Q1, SJR 0.51</b> <b>H-index 74</b> <b>2023</b>		
2	Omar, M., Alotaibi, E., Arab, M.G. et al. Harnessing Nature-Inspired Soft Computing for Reinforced Soil Bearing Capacity Prediction: A Neuro-nomograph Approach for Efficient Design.	International Journal of Geosynthetics and Ground Engineering	Environmental, Sustainable	<a href="https://doi.org/10.1007/s40891-023-00472-9">https://doi.org/10.1007/s40891-023-00472-9</a> <b>IF 2.6 (A) - Scopus</b> <b>Q1, SJR 0.65</b> <b>H-index 25</b> <b>2023</b>		
3	Alotaibi, E., Omar, M., Shanableh, A., Zeiada, W., Fattah, M. Y., <b>Tahmaz, A.</b> , & Arab, M. G. (2021). Geogrid bridging over existing shallow flexible PVC buried pipe-Experimental study.	Tunnelling and Underground Space Technology		113, 103945 <a href="https://doi.org/10.1016/j.tust.2021.103945">https://doi.org/10.1016/j.tust.2021.103945</a> <b>IF 4.45 (A) - Scopus</b> <b>Q1, SJR 1.97</b> <b>H-index 86</b> <b>2021</b>		

No.	Title of paper & and authors in order	Journal Name	Sustainability Related If sustainability related please insert max. of 3 keywords, see footnote please	Journal		
				Volume	Number	Year
4	Maher Omar, Abdallah Shanableh, Khaled Hamad, <b>Ali Tahmaz</b> , Mohamed G. Arab, Zaid Al-Sadoon. Nomographs for predicting allowable bearing capacity and elastic settlement of shallow foundation on granular soil.	Arabian Journal of Geosciences		12, 485 <a href="https://doi.org/10.1007/s12517-019-4644-1">https://doi.org/10.1007/s12517-019-4644-1</a> <b>IF 1.327 (A) - Scopus Q2, SJR 0.4 H-index 40 2019</b>		
5	Maher Omar, Abdallah Shanableh, Mohamed Arab, Khaled Hamad & <b>Ali Tahmaz</b> . Advanced Mathematical Models to Predict the Compaction Properties of Coarse Grained Soils from Various Physical Properties	Geotech Geol Eng.		36, 3467–3483 <a href="https://doi.org/10.1007/s10706-018-0547-2">https://doi.org/10.1007/s10706-018-0547-2</a> <b>(B) - Scopus Q2, SJR 0.54 H-index 51 2018</b>		

### C. Latest Research or Papers Presented and published in academic Conferences

No	Title of paper and authors in order	Sustainability Related If sustainability related please insert max. of 3 keywords, see footnote please	Title of conference	Place	Date
1	Emran Alotaibi, <b>Maher Omar</b> , Mohamed G. Arab, Abdallah Shanableh, Waleed Zeiada, Ali Tahmaz, Experimental Investigation of the Effect of Geogrid Reinforced Backfill Compaction on Buried Pipelines Response. <b>Scopus indexed</b>		4 <sup>th</sup> International Conference On Geotechnical Research and Engineering (ICGRE'19)	Rome, Italy	April 7 to 9, 2019
2	Lubna Obaid, Sama Alani, Maher Omar, Samer Barakat, Mohamed Arab, Moussa Leblouba, Abdallah Shanableh, <b>Ali Tahmaz</b> , The Development of a Local Ground Motion Prediction Equation from Recorded Data.	Environmental, Sustainable	4 <sup>th</sup> International Conference On Geotechnical Research and Engineering (ICGRE'19)	Rome, Italy	April 7 to 9, 2019
3	Haider Rohy, Mohamed Arab, Waleed Zeiada, Maher Omar, Abdullah Almajed, <b>Ali Tahmaz</b> , One Phase Soil Bio-Cementation with EICP-Soil Mixing.	Environmental, Sustainable	4 <sup>th</sup> International Conference On Geotechnical Research and Engineering (ICGRE'19)	Rome, Italy	April 7 to 9, 2019

No	Title of paper and authors in order	Sustainability Related If sustainability related please insert max. of 3 keywords, see footnote please	Title of conference	Place	Date
4	M. Omar, A. Shanableh, S. Abduljalil, M. Arab, K. Hamad, A. <b>Tahmaz</b> , "Geotechnical Mapping of Seismic Risk For Sharjah City, United Arab Emirates"		Global Civil Engineering Conference (GCEC2017)	Putra Malaysia	July 2017
5	Maher Omar, Khaled Hamad, A Shanableh, <b>Ali Tahmaz</b> , Efforts To Maximize The Success Of Students On Probation		8 <sup>th</sup> International Forum on Engineering Education (8 <sup>th</sup> IFEE2017)	Sharjah, UAE	April 18-20, 2017
6	Mohamed Arab, Maher Omar and <b>Ali Tahmaz</b> , Numerical Analysis of Shallow Foundations on Geogrid Reinforced Soil		Advances in Sustainable Construction Materials & Civil Engineering Systems International Conference (ASCMCES2017) - <b>Scopus</b>	Sharjah, UAE	April 18-20, 2017

#### D. Latest Inter-disciplinary Research Project

No	Title of research project	Sustainability Related If sustainability related please insert max. of 3 keywords, see footnote please	Year
1	Using Alkali-Activated Binders to Improve UAE Sabkha Soils  Mohamed G. Arab, Maher Omar, Muhammed Talha Junaid Abdallah Shanableh, Waleed Zeiada, <b>Ali Tahmaz</b>	Environmental, Sustainable	Competitive Research Grant 2018-2020 AED 79,000
2	Using Microbial inspired techniques to improve the geotechnical properties of sand dunes in UAE  Mohamed G. Arab, Elsiddig A. E. Elsheikh, Maher Omar, Abdallah Shanableh, Waleed Zeiada, <b>Ali Tahmaz</b> , Sherief El-Badawy	Environmental, Sustainable	Targeted Research Grant, 2019-2022 AED 156,000
3	Using Enzyme Induced Calcite Precipitation (EICP) to control dust in UAE  Mohamed G. Arab, Edward Kavazanjian, Maher Omar, Abdallah Shanableh, Waleed Zeiada, <b>Ali Tahmaz</b>	Environmental, Sustainable	Collaborative Research Grant Sharjah Research Academy, Arizona State University 2018 - 2020 AED 120,000

No	Title of research project	Sustainability Related If sustainability related please insert max. of 3 keywords, see footnote please	Year
4	Advanced Characterization of Dynamic Soil Properties in UAE for Enhanced Civil Infrastructures Design  Maher Omar, Abdallah Shanableh, Waleed Zeiada, <b>Ali Tahmaz</b> , Sherif El-Badawy, Mohamed G. Arab, and Mohammed Yousif Fattah		Targeted Research Grant AED 196,000 2020
5	Management of Load Transfer to Underground Structures by Using Geocell Soil Reinforcement		Competitive Research Grant 2016-2019 AED 99,400

#### PUBLICATIONS-JOURNAL

1. Maher Omar, Abdallah Shanableh, **Ali Tahmaz**, "Shear Strength of Compacted Green Clay: Physico-Chemical Factors" **Lowland Technology International**, Vol. 6, No. 1, pp 9-20, **2004**
2. Abdallah Shanableh, Maher Omar, A. Babakir and **A.Tahmaz** "Impacts of Irrigation and Effluent Discharge Near an Old Waste Disposal Site - A Case Study" **SQU Journal for Scientific Research-Agricultural Science** (short communication), pp. 55, **2003**

#### PUBLICATIONS- PROCEEDINGS

1. M. Omar, A. Shanableh, S. Abduljalil, M. Arab, K. Hamad, **A. Tahmaz**, "Geotechnical Mapping of Seismic Risk For Sharjah City, United Arab Emirates", **Global Civil Engineering Conference (GCEC2017)**, Faculty of Engineering University, Putra Malaysia, June 2017, Accepted
2. Maher Omar, Khaled Hamad, A Shanableh, **Ali Tahmaz**, Efforts To Maximize The Success Of Students On Probation, **8<sup>th</sup> International Forum on Engineering Education (8<sup>th</sup> IFEE2017)**, April 18-20, 2017

<p>3. Mohamed Arab, Maher Omar and <b>Ali Tahmaz</b>, Numerical Analysis of Shallow Foundations on Geogrid Reinforced Soil, <b><u>Advances in Sustainable Construction Materials &amp; Civil Engineering Systems International Conference (ASCMCES2017)</u></b>, April 18-20, 2017</p>
<p>4. Maher Omar, Abdallah Shanableh, Samer Barakat, Adnan Basma, <b>Ali Tahmaz</b>, Braja Das, "Compaction Characteristics of Some Granular Soils" <b><u>12<sup>th</sup> Asian Regional Conference on Soil Mechanics and Geotechnical Engineering</u></b> Singapore pp. 517-522, <b>2003</b>.</p>
<p>5. Shanableh, A. Omar, M., Babakir, A. and <b>Tahmaz, A.</b> "Impacts of Irrigation and Effluent Discharge Near an Old Waste Disposal Site - A Case Study". <b><u>Book of Extended Abstracts - International Conference on Soil and Groundwater Contamination and Clean-up in Arid Countries</u></b>, Muscat, Oman 20-23 pp. 55, January <b>2003</b></p>
<p>6. Abdallah Shanableh, Maher Omar, <b>Ali Tahmaz</b> and Abdulraziq Bubakir, "Investigation of The Sharjah Old Waste Disposal Site", <b><u>The Second Symposium on Scientific Research Outlook in the Arab World</u></b>, University of Sharjah, UAE. (CD ROM), <b>2003</b></p>
<p>7. Maher Omar, Abdallah Shanableh, <b>Ali Tahmaz</b> and Abdulraziq Bubakir," Reclamation of The Sharjah Old Waste Disposal Site – Investigation Plans", <b><u>6<sup>th</sup> International Symposium on Environmental Geotechnology and Global Sustainable Development</u></b>, p.p 329- 335, Seoul, Korea, July 2-5, <b>2002</b></p>
<p>8. Maher Omar, <b>AliTahmaz</b>, Eun Shin, Braja Das, and Cavit Atalar "Shear Strength of Oil-Contaminated Sand" <b><u>6<sup>th</sup> International Symposium on Environmental Geotechnology and Global Sustainable Development</u></b>, p.p 519- 526, , Seoul, Korea, July 2-5, <b>2002</b></p>
<p>9. Abdallah Shanableh, Maher Omar, <b>Ali Tahmaz</b> and Abdulraziq Bubakir "Planned corrective measures to reclaim an old waste disposal site in Sharjah", <b><u>4<sup>th</sup> International Congress on Environmental Geotechnics</u></b>, , p.p 645- 649, , Rio de Janeiro, Brazil, August 11-15, <b>2002</b></p>
<p>10. Abdallah Shanableh, Maher Omar, <b>Ali Tahmaz</b> and Abdulraziq Bubakir," Reclamation of The Sharjah Old Waste Disposal Site – Investigation Results", <b><u>ENVIRO 2002/ IWA World Water Congress</u></b>, Melbourne, Australia, , (CD Rom) , 7-12 <b>April 2002</b></p>

11. Eun Shin, Maher Omar, **Ali Tahmaz**, Braja Das, and Cavit Atalar. "Shear Strength and Hydraulic Conductivity of Oil-Contaminated Sand" **4<sup>th</sup> International Congress on Environmental Geotechnics**, P.P 9-13, , Rio de Janeiro, Brazil, August 11-15, **2002**

12. Abdallah Shanableh, Maher Omar, **Ali Tahmaz** and Abdulraziq Bubakir, "Investigation of the Sharjah Old Waste Disposal Site", **Book of Abstracts, Second Symposium on Scientific Research Outlook in the Arab World**, University of Sharjah, Sharjah, United Arab Emirates. p.p 120, March 24-27, **2002**

#### SPECIAL REPORTS

1. Abdallah Shanableh, Maher Omar, **Ali Tahmaz** and Abdulraziq Bubakir, "Sharjah Old Disposal Site Investigation Results & Remedial Options", **Report Submitted to the Special and Technical Committees for Waste Management in Sharjah**, UAE 2001.
2. Abdallah Shanableh, Maher Omar, **Ali Tahmaz** and Abdulraziq Bubakir, "Preliminary Field Investigation of The Current Waste Disposal Site in Sharjah and Action plan For Establishing An Integrated Waste Management Program ", **Report Submitted to the Special and Technical Committees for Waste Management in Sharjah**, UAE 2001.
3. Abdallah Shanableh, Maher Omar, Aysar Nahle, **Ali Tahmaz**, Abdulraziq Bubakir, Rodrigo Valdez, and Osman Younis "Preliminary Assessment of Water Quality and Circulation Patterns in the Khalid and Al-Khan Lagoons", **Report Submitted to the Research and Studies Center**, University of Sharjah, UAE, **2001**.

#### TECHNICAL REPORTS

1. Shanableh, A. Omar, M., "Water Quality And Circulation Patterns In Khalid And Al-Khan Coastal Lagoons In Sharjah – **Technical Report # UOS – 1** , Published by - Research and Studies Center, University of Sharjah, **2004**.  
( **With contribution from:** Fadel A., **Tahmaz A.**, and Babiker A. )
2. Shanableh, A. Omar, M., **Tahmaz, A.**, Bubakir A., and Fadel A., Investigation of The Sharjah Waste Disposal Sites and Remediation Alternatives. In Collaboration with Environment and Protected Areas Authority, and Environmental Protection Section of Sharjah Municipality.  
- **Technical Report # UOS – 2**, **2005**

No	INTER-DISCIPLINARY RESEARCH PROJECT	Year
1	Empirical Correlations for Predicting Allowable Bearing Capacity and Elastic Settlement of Shallow Foundation on Granular Soil	2016-2017
2	Numerical Analysis of Shallow Foundations on Geogrid Reinforced Soil	2016-2017
3	Predicting Allowable Bearing Capacity and Settlements of shallow foundations using artificial neural networks - Sharjah, United Arab Emirates	2015-2017
4	Geotechnical Mapping of seismic risk of Sharjah City, United Arab Emirates	2015-2017
5	Field plate load test to investigate stress distribution in soil mass with and without reinforcement - United Arab Emirates	2015-2017
6	Estimating Rock Strength Parameters From Empirical Correlations - United Arab Emirates	2015-2017
7	Competitive Research Grant, "Influence of Particle Morphology on Strength Properties of UAE Carbonate Sands"	2015-2017
8	Advanced Characterization of Dynamic Soil Properties in UAE for Enhanced Civil Infrastructures Design	Targeted Research Grant Approved
9	Management of Load Transfer to Underground Structures by Using Geocell Soil Reinforcement	Targeted Research Grant Approved 2016-2017

COMMUNITY SERVICES AND CONSULTING REPORTS	
1.	Landfill closure of Sharjah waste disposal facility and remediation options and alternatives for <b><u>Environment Section of Sharjah Municipality.</u></b>
2.	Preliminary field investigation of the current waste disposal site in sharjah and action plan for establishing an integrated waste management program for <b><u>Environment Section of Sharjah Municipality.</u></b>
3.	Sharjah university city groundwater (flooding problem) for <b><u>University of Sharjah</u></b>
4.	Monitoring of Water Quality and circulation patterns in Khalid and Al-Khan Lagoons for <b><u>Sharjah Environment and protected Areas Authority</u></b>
5.	Conducting of ultrasonic pulse velocity test on concrete columns and testing of some steel bars for <b><u>Tiger Contacting Company.</u></b>



6. Mat foundation design of two villas at Palms Island for <b><u>Al Moosa Contracting Company</u></b> .
7. Pile foundation design villas at Palms Island for <b><u>Al Moosa Contracting Company</u></b> .
8. Strength tests of <b>AAC</b> wall panels under compression load Load-Deformation Characteristics for <b><u>Emirates Aerated Concrete Industries</u></b>

<b>ADMINISTRATIVE ACTIVITIES</b>			
<b>Activity</b>	<b>Duties</b>	<b>Date</b>	
		<b>From</b>	<b>To</b>
1. Laboratories Manager	Control and follow up all laboratories need for better achievements	Sept. 2012	Up to present
2. ABET Committee member	Evaluating all courses among the system requirements to achieve programm objectives	Sept. 2012	Up to present
3. Coordinator of Geotechnical Laboratory	Follow up maintenance, ordering equipments & software, equipment calibration, inventory, safety requirements, laboratory testing manual ..etc.	Sept. 2000	June 2005
4. Assessment & Continuous Improvement	Courses assessment	Aug. 31 <sup>st</sup> , 2004	Up to present
5. International Conference on Geotechnical Engineering	Local arrangements and publicity	Oct. 3 <sup>rd</sup> , 2004	Oct. 6 <sup>th</sup> , 2004

<b>Concerns:</b>	• Reading
	• Chess
	• Sports (Hand-ball, Soccer and Swimming)

<b>References:</b>
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-Further details will be furnished upon request-