

**Abdallah I. Husein Malkawi, Ph.D.**

Professor of Geotechnical and Dam Engineering  
Fahad Bin Sultan University  
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## PERSONAL DATA

Date of Birth: Feb., 06, 1962  
Nationality: Jordanian  
Present Position: Professor of Geotechnical and Dam Engineering

## SUMMARY OF QUALIFICATIONS

Excellent skills acquired in Civil Engineering supported by a B.S. in Civil Engineering\Geotechnical, M.S. and a Ph.D. in Geotechnical Engineering. Experienced in design, analysis, teaching and research in the field of soil mechanics and foundations with a strong background in dam design, RCC dams, Thermal analysis for RCC Dams, slope stability analysis, earthquake engineering, seismicity, Liquefaction studies, and pile foundation, geophysical Methods, and Safety of dams . Published several papers in International Journals and conference proceedings. Member of the Royal committee for water management, Head of the National Dams Committee and consultant for the Ministry of Water and Irrigations, Jordan Valley Authority. Editors-in-Chief of the International Jordan Journal of Civil Engineering. Member of the Editorial Board of the Geotechnical Testing Journal (ASTM), USA, and Consultant to the World Bank for the Red Sea Dead Sea Canal. Honorary Doctorate in Science and Technology and the Golden Medal of Al-Farabi University, Kazakh National University, December 2013, Chairman of Board of Trustees of Al-Isra University, Amman-Jordan and Member of the Board of Trustees of the University of Sharjah, United Arab Emirates, Chancellor for Fahad Bin Sultan University Saudi Arabia. Formerly, President of Jordan University of Science and Technology and Chairman of Board of Trustees of King Abdullah University Hospital.

## EDUCATION

**Post-Doctorate** in Geotechnical Engineering, Virginia Polytechnic Institute & State Univ. with Prof. James M. Duncan, Univ. Distinguished Prof. July, 1992 to Feb., 1993.

**Doctor of Philosophy** in Geotechnical Engineering: The University of Akron, U.S.A., July 1992. Dissertation: "Determination of Wave Equation Soil-Pile Interaction Model Parameters Using In situ Testing Technique".

**Masters of Science** in Geotechnical Engineering: The University of Akron, U.S.A., January, 1990. Research: "Determination of Smith soil parameters".

**Bachelor of Science** in Civil Engineering/Geotechnical: Bucharest Institute of Technology, June 1986.

## PROFESSIONAL EXPERIENCE

**Feb., 01 2016 to Present** Chancellor, Fahad Bin Sultan University, Tabuk, Saudi Arabia  
**November 11 2017 to Present** Chairman of Board of Trustees of Al-Isra University Amman, Jordan  
**April, 28 2011 to April 28, 2015** President of Jordan University of Science and Technology  
**April, 28 2011 to April 28, 2015** Chairman of Board of Directors of King Abdullah University Hospital,  
**Dec. 01 2010 to April, 28 2011** Vice President of the German Jordanian University  
**Sept. 01 2004 to June 15 2010** Vice President of Jordan University of Science and Technology  
**Sept. 15 2002 to Sept. 01 2004** Dean of Research  
**March 01, 2003 to Present:** Professor of Civil Engineering, Geotechnical and Dam Engineering Division, Jordan University of Science and Technology

**August, 1994 to Present** Consultant to the Ministry of Water and Irrigation, Jordan Valley authority, and Head of the National Dams Committee. Responsible for the follow-up of design, dam's safety and supervision in collaboration with the consultant and the Contractor. This covers Al wehdah, Karameh, Kafrein, Mujib, Wala, Tannur, Al-Wehdah, Wadi Yabis, Wadi Kufranja, and Wadi Rajib dams, besides participating in the design and rehabilitation of several small dams with Jordan Valley Authority and Ministry of Agriculture.

**March 01, 1998 to March 2003** Associate Professor of Civil Engineering, Geotechnical and Dam Engineering Division, Jordan University of Science and Technology

**February, 1993 to March 1998** Assistant Professor, Geotechnical and Dam Engineering Division, Jordan University of Science and Technology

**Jan., 1989 to Sept. 1992** The University of Akron Research Assistant sponsored by The Ohio Department of Transportation (ODOT) and U. S. Federal Highway Administration (FHWA)

**Jan., 1990 to Jan., 1992** Working on construction sites (about 20 sites within Ohio) to monitor the pile driving response using Pile Driving Analyzer (PDA), and at the same time performing small scale pile tests with both DINASTAR penetrometer and Modified Dynamic Penetrometer for each site

**May 1989 to Sept., 1989** Received extensive training to use the WEAP, CAPWAPC computer program and Pile Dynamic Analyzer PDA at the PDA/GRL Pile Dynamics Inc. 4535 Emery Industrial Parkway Cleveland Ohio, 44128

### Courses Taught

- CE 202 Strength of Materials
- CE 357 Numerical Analysis
- CE 462 Foundation Engineering I
- CE 564 Foundation Engineering II
- CE 565 Subsurface Exploration
- CE 703 Retaining Structures
- CE 789 Geotechnical Earthquake Eng.
- CE 461 Soil Mechanics I
- CE 463 Soil Mechanics Laboratory
- CE 566 Soil Improvement
- CE 703 Soil Properties
- CE 786 Advance Foundation Eng.
- CE 789 Dam Engineering

### Supervised MS Theses

- 1) *Seismic hazard assessment and evaluation of dynamic site period*, by Osama Nusier, Master of Science in Civil Engr., Dec. 1993.
- 2) *Dynamic modeling of flow and high velocity projectile penetration of soil*, by Nadiem, Shabib, Master of Science in Civil Engr., May, 1994.
- 3) *Seismic assessment, and evaluation of earthquake hazard for major cities in Jordan*, by Jamal Bataineh, Master of Science in Civil Engr., May. 1994.
- 4) *Use of Static Cavity Expansion to Determine Pile Capacity: Probabilistic Approach*. by Raffi Babayan, Master of Science in Civil Engr., March. 1995. CoS.
- 5) *Evaluation of Seismic Zoning Factor and Local Site Coefficient as Applied to the Jordanian Seismic Code*. by Osama Alzoubi, M.S. in Civil Engr., May. 1995.
- 6) *Reliability-Based Analysis and Design of Laterally Loaded Pile*. by Ra'ed Tahat, Master of Science in Civil Engr., Dec. 1995. CoS.
- 7) *Evaluation of Ductility, Ductility Reduction and Overstrength Factors as Applied to the Jordanian Seismic Code of Practice*. by Anis S. Al-Shatnawi, M.S. in Civil Engineering, May, 1996. CoS.
- 8) *Damageability Prediction Model Based on Seismically Induced Site Effects For Irbid City*. by Nadia Sweedat, M.S. in Civil Engineering, May, 1997.
- 9) *Effect of Organic Matters on Engineering Soil Properties*. by Osama T. Abu-Safagah, M.S. in Civil Engineering, May, 1997.
- 10) *Determination of Soil Elastic Modulus Using Seismic Refraction Method*. by Abdallah Alawneh, Master of Science in Engineering Geology, Yarmouk University, Dec. 1997. CoS.
- 11) *Seismic Analysis of Slope Stability Using Monte Carlo Technique*. by Waleed Falih Hassan, M.S. in Civil Engineering, Aug. 1998.
- 12) *Study of Soil-Pile Model Interaction Under Dynamic Loading*. by Ayasrah, I.M, M.S. in Civil Engineering, Aug. 1998.

- 13) *A Study on the Safety Factor of Slopes Using Limiting Equilibrium Approach*. By Tamara Mubeideen, June 2001.
- 14) *Evaluation and Prediction of Sinkholes at the Eastern Part of the Dead Sea*, M.S. in Civil Engineering by Mohammed Al-Sakran, 2002.
- 15) *Behavior of the Reaction between Certain Jordanian Rock-Aggregate and Cement in (RCC) Dam*”, by Samer Rabab’ah, 2002
- 16) *Effect of Fly ash on the Mechanical Properties of Different Roller Compacted Concrete (RCC) Trial Mixes: Laboratory Study*”, Huseein A. Shaia, August, 2003
- 17) *A Study of Temperature Distributions and Thermal Stresses in Roller Compacted Concrete (RCC) Gravity Dam*’, Mohammad Al-Jammal, January 2004.
- 18) *Determination of Temperature Distribution and Thermal Stresses for RCC Dams using two Different Finite Elements Codes (A Comparative Study)*”, Ehab Shatnawi, January 2004.
- 19) *Scale Effect Study on Shear Strength using Large Scale Direct Shear Device*”, Kifah Ewisat, January 2004.
- 20) *Stability Analysis of Slopes using Finite Element Method and Limiting Equilibrium Approach, A Comparative Study*”, Mohammad Yamin, January 2004.
- 21) *Seismic analysis and evaluation of earthquake hazard for Arab Gulf Countries specially United Arab Emirates*, by Wassel, Master of Science in Civil Engr., 2005.
- 22) *Vibration Analysis and Modeling of RCC Dams Using Finite Element Method*, by Mohammad Irshidat April, 2006.
- 23) *Mechanical Properties and Thermal Behavior of RCC Gravity Dam*, Bassam Egilat 2006.
- 24) *Seismic Hazard of the Middle East Region*, Asar Al-Taani, 20011

#### **SUPERVISED Ph.D. THESES**

- 1) *Remote Sensing and GIS-Assisted Modeling of Soil Induced Erosion Hazards: A Case Study in the North & Northwest of Jordan*”, by Nezar Al-Hammouri Ph.D. January 2002.
- 2) *Geotechnical Engineering and its Application in the Stabilization of a Landslide at Tayba, Petra*, Ahmed Al-Tal, Ph.D. May 2002.
- 3) *A Contribution to the Thermal Behavior of Roller Compacted Concrete (RCC) Gravity Dams. Field and Laboratory Measurements*. Marco Conrad, Munich Technical University, Germany, Feb. 03 2006.
- 4) *Determination of Discharge Information for Arid Areas with Ephemeral Flow with the Help of Remote Sensing Techniques*. Michael Mett, the University of Innsbruck, Austria, July 04, 2015

#### **PROFESSIONAL AFFILIATION**

- Founder and President of ASCE - Jordan International Group, 1996-present.
- TOP International Recruiter for the American Society of Civil Eng. (ASCE), 1996.
- Founder of ASCE-Continuing Education Courses in Civil Engineering, Jordan.

#### **OTHER ACTIVITIES**

1. University Council JUST (1997, 2004-2015)
2. Research Department Committee JUST (1997 - 2002)
3. Research Faculty Committee JUST (1998 - 2002)
4. Deans’ Council JUST (2002 – 2015)
5. Deans’ Council GJU (Nov. 2010- April 2011)
5. Head of the Equivalency Certificate Committee, Ministry of Higher Education & Research (2009-2010)
6. Selection and Employees committee at JUST 2004-2015.
7. Appointment and Promotion committee at JUST 2011-2015.

## TV SHOW

Juror (2013) for the STARS OF SCIENCE (Noujoum El Ouloum) MBC4, Season 5 Sponsored by Qatar Foundation for Education.

## MEMBERSHIP

1. American Society of Civil Engineers, ASCE, Associate Member.
2. Earthquake Engineering Research Institute, EERI, Member.
3. International Society of Soil Mechanics and Foundation Engineers, ISSMFE, Member.
4. Editor-in-Chief Jordan Journal of Civil Engineering (JJCE) An International Refereed Research Journal, 2006-2012.
5. Editorial Board Member, Geotechnical Testing Journal (GTJ), ASTM, USA.

## HONORS AND OTHER ACTIVITIES

1. **Jan., 1989 to Sept. 1992** Research Assistantship and tuition waiver for graduate studies by the department of Civil Engineering at the University of Akron.
2. **May 1985** Honorary Diploma for presenting a paper titled "Consideration of Wind and Snow Force Actions Based on Probabilistic Approach".
3. Awarded A Trip to the Annual Convention in Washington, D.C. November 1996.
4. **Winner of the 2006 Distinguished Researcher Award offered by the Jordanian Ministry of Higher Education and Scientific Research.**
5. **Honorary Doctorate in Science and Technology and the Golden Medal of Al-Farabi University, Kazakh National University, December 2013.**

## IMPOTANT COMMITTEES

1. Member, Board of Trustees of the University of Sharjah, United Arab Emirates (2015 - ).
2. Advisory Board of the North African and Mediterranean Center (CANMRE), University of Tsukuba, Japan. June 01 2012 till June 01 2014
3. Member of the Royal Committee for Water Management in Jordan, Headed by HRH Prince Faysal, Feb., 2008 – Present
4. Member of the Board of Trustees at Tafila Technical University (2008-2011)
5. Head of the National Committee for Dams. 2006 – Present
6. Member, National Committee for Dams. 1994 to 2006.
7. Consultant to the Jordan Atomic Energy Commission (JAEC), Oct. 2009 - Present for the selection of the NPP site in Jordan.
8. On the Committee for Reviewing the Egyptian Seismic Code, Royal Sci. Society.

## CONSULTING EXPERIENCE

1. Member of the landslide hazard zonation committee in the Royal Jordanian Geographic Center.
2. Consultant for the Ministry of Water and Irrigations, Jordan Valley Authority. 1994 to Present
3. Consultant to the **Government of Costa Rica**, on the Pirrias Dam, 2004-2007
4. Consultant to the **Andriolo Ito Engenharia Ltda. Sao Carlos – SP – BRASIL**, on the Pinalito RCC Dam, Republica Dominicana, 2005-2008
5. Consultant to the SaudiConsult, Saudi Arabia on the DAMAD dam, 2008-present
6. Carrying out geotechnical investigation for the Proposed Ajloun Education Department Building, Prepared for the Ministry of Public Works and Housing, Amman, Jordan. The job includes beside investigations preparation of solution for the in-stable area.
7. Carrying out rehabilitation for the dikes at El-Kader waste water treatment plant. The work includes geotechnical investigation, stability analysis and supervision of the construction. 2000

8. Carrying out rehabilitation of the instability of the slopes along the Dead Sea Shore, the job includes investigation, slope stability analysis and supervision. 2000/2001
9. Rehabilitation of the Wadi Es-sir Waste Water treatment plant, this includes the stabilization of the long time on going slopes instability above the lagoons, Pile foundation was recommended for stabilizing the slopes, the job includes investigation, design and supervision of the work. 2001/2002
10. Carrying out all geotechnical investigation for the dikes at Potash Arab Company at the Dead Sea. The 12 km dikes failed suddenly during impounding and about 2 km was washed in the water. The geotechnical investigation was part of the rehabilitation of the failed dikes. December 2001
11. Carrying out liquefaction study for hotels (Mövempick) and for the Aqaba port tower for the Arab Center and Royal Scientific Society. 1996 and 2001, respectively.
12. Carrying out several seismic refraction studies for Wala and Mujib dams in Jordan.
13. Preparing design documents for the two proposed small dams for water harvesting at Jordan University of Science and Technology Campus, 2000
14. Carrying out thermal and structural analyses for Al Wehdah dam, the study was performed for Harza Consulting Co. USA. 2003.
15. Preparing design and Tender document for several small dams for the Ministry of Agriculture, 2003
16. Carrying out Mix Design for Al Wehdah RCC dam for Harza Consulting Co. USA. 2003.
17. Carrying out a study on the effect of nearby excavation down stream of Wadi Arab Dam for the Ministry of Water and Irrigation, 2003.
18. Carry out comparative study for two different cementitious materials for Jordanian Cement Factory, 2003.
19. Carry out thermal study for Al Wehdah RCC dam for Ozaltin, Turkish Co., 2004, 50 p.
20. Carry out structural analysis for Al Wehdah RCC dam for Ozaltin Turkish Co., 2004, 90 P.
21. Carry out Structural Stability Analysis of PINALITO RCC DAM in Dominican Republic (Static, Pseudo-Static and Dynamic Analysis)". Prepared to PROYECTO HIDROELECTRICO PINALITO LA VEGA, REPUBLICA DOMINICANA, 2005, pp. 195
22. Carry out Probabilistic Seismic Hazard Analysis And Development Of Ground-Motion Parameters For The Two Arab Potash Sites In The Dead Sea And Aqaba City" Submitted to **HATCH**, Oakville, Ontario, Canada and Arab Center for Engineering Studies, Amman. 2006, Pp. 40.

## **INTERNATIONAL EXPERIENCE**

- Consultant to government of Costa Rica and Member of the Panel of Expert for the Pirris RCC Dam Project in Costa Rica, (2004-2007)
- Consultant to Andriolo Ito Engenharia Ltda. Sao Carlos – SP – BRASIL (2004 to Present)
- Consultant to the SaudConsult, Saudi Arabia, 2008-Present
- Consultant to the World Bank for the Red Sea Dead Sea Canal, (2009 to Present)

## **HIGHER EDUCATION TECHNOLOGY EXPERIENCE**

1. ABET Evaluator For Jubail University College, Saudi Arabia, 2014.
2. Enforcing Engineering and Medical International Accreditation at JUST such as, ABET, HCAC, WFOT, WCPT, EAEVE, NAAB, ..etc.
3. Enforcing Highest Level of Publications Standards at JUST by using internationally Recognized Indexing System Such as Thomson Reuters (formerly known as ISI)
4. Enhancing JUST library system through the expansion of the university's participation in international publication databases such as Sciencedirect, Scopus, Springer, Wiley-Blackwell, Taylor & Francis EBSCO
5. Promoting the use of ICT enabled education such as electronic distance learning, the use of smart boards, virtual learning labs between JUST and North Carolina State University,

## ASCE-CONTINUING EDUCATION COURSES IN CIVIL ENGINEERING

1. Design of Dams and Embankments. May, 3rd - 8th 1997, Place: Arab Center for Engineering studies, Amman.
2. Roller Compacted Concrete Dams. Aug. 30th - Sept. 3rd 1997, Place: Arab Center for Engineering studies, Amman.

## SOFTWARE PACKAGES

I have developed several packages for enhancing research, development, and education in civil engineering:

1. **Husein Malkawi, A.I.**, and Waleed F. Hassan (2001) "**SAS-MCT 3.0**, Stability Analysis of Slopes Using Monte Carlo Technique" A Software for 2-D and 3-D Slope Stability Analysis with Dynamic effect, including non-circular slip surface. Windows Version.
2. **Husein Malkawi, A.I.**, and Shatnawi, E. (2004) "**Geo-LAB**, Geotechnical Testing Software" Windows Version.
3. **Husein Malkawi, A.I.**, and Waleed F. Hassan (2005) "**SAS-MCT 4.0**, Stability Analysis of Slopes Using Monte Carlo Technique" A Software for 2-D and 3-D Slope Stability Analysis with Dynamic effect, including non-circular slip surface. Windows Version.
4. **Husein Malkawi, A.I.**, and Belakhdar, Kh. (2008) "**SAS-FEM 2.0**, Stability Analysis of Slopes Using Finite Element Method" A Software for Slope Stability Analysis with Dynamic effect, Windows Version.

## WORKSHOP

1. Training Workshop on Pile Dynamics (August, 1989), GRL and Associate Cleveland, Ohio
2. Training Workshop on Seismotectonics and Paleoseismicity (Nov. 3-11, 1995, EGYPT) Funded by UNESCO Regional Office For Science & Technology For The Arab States.
3. Towards Democratic Thinking. European Union, MEDA Democracy Project, Debating Workshop organized by the British Council in co-ordination with JUST, Oct. 30 - Nov. 3, 1999.
4. Dam Safety Workshop sponsored by GFA terra system, Germany, between June 2005, for **EC- FSMU-TA**, C/o Ministry of Planning and International Cooperation, Sana'a, Yemen.
5. SAS-MCT 4.0 Workshop sponsored by GFA terra system, Germany, between June 2003, for **EC- FSMU-TA**, C/o Ministry of Planning and International Cooperation, Sana'a, Yemen.
6. International Workshop on **Sustainable Technology for Rural Tourism Development** in Europe and Islamic Countries, 30 Nov.-02 Dec. 2003. In Al Akawayn University in Ifrane, Morocco Title of the lecture "The Importance of Dams in Jordan"
7. **Water- a Crucial Object in the Middle East and North Africa**, Proceedings collection of papers, Editors: Markus Aufleger and Abdallah I. Husein Malkawi, funded by DAAD Germany, 28<sup>th</sup> - 30<sup>th</sup> Nov. 2004.
8. **International Workshop on Availability and Quality Management of Water in the MENA Region (Middle East and North Africa)**, Proceedings collection of papers, Editors: Rutschmann (TUM) and Abdallah I. Husein Malkawi, funded by DAAD Germany, 18<sup>th</sup> - 20<sup>th</sup> Nov. 2007.

## INTERNATIONAL CONFERENCES

1. Chairmen and Organizer of the International Conference in Roller Compacted Concrete Dam Construction in Middle East, 7<sup>th</sup> - 10<sup>th</sup> April 2002, Jordan University of Science and Technology (JUST), Irbid Jordan. Sponsored by JUST and MUT Germany.
2. Chairmen and Organizer of the International Conference GEO2004:Advances in Geotechnical Engineering with Emphasis on Dam Engineering, 12<sup>th</sup> - 15<sup>th</sup> July 2004, Jordan University of Science and Technology, Irbid Jordan. Sponsored by JUST, Louisiana State Univ., University of Akron and American Society of Civil Engineers (ASCE).

## SEMINARS AND LECTURES

1. "Earthquake: An Overview", November, 1994. Invited by the Jordanian Engineering Association, Irbid - Jordan.
2. "Earthquake: An Overview", Feb. 1996. Invited by the Greater Amman Municipality, Amman - Jordan.
3. "Earthquake Effects On Soil-Foundation Systems", Invited by the Ministry of Public Works and Housing, Jordan, April, 1996.
4. "Future Expectations for Dams in Jordan Toward 2020", Conference Organized by the Greater Amman Municipality and the Royal Jordanian Geographic Center, May, 1996.

## INVITED LECTURES

1. "An efficient search method for locating circular slip surface using Monte Carlo techniques", International Workshop-cum-Training Programme on Landslide Hazard & Risk Assessment and Damage Control for Sustainable Development. 6-15 Nov. 1998. New Delhi, India.
2. "Mapping of landslide hazard zonation in Jordan using remote sensing and GIS", International Workshop-cum-Training Programme on Landslide Hazard & Risk Assessment and Damage Control for Sustainable Development. 6-15 Nov. 1998. New Delhi, India.
3. "Identification of Soil-Pile Model Interaction Parameters from Recorded Time-Displacement Signals", International Conference on stress Wave Theory, Brazil, Sao Paulo, September, 11, 2000 **Keynote Lecture**.
4. "Stability Analysis of Slopes Using Monte Carlo Technique" Invited lecture by Louisiana State University, Civil Engineering Department, Baton Rouge, Monday, 15, 09, 2003.
5. "Four RCC dams in Jordan: Each is different" Invited lecture by Louisiana State University, Civil Engineering Department, Baton Rouge, Wednesday, 17, 09, 2003.
6. "Stability Analysis of Slopes Using Monte Carlo Technique" Invited lecture by The University of Akron, Ohio, Civil Engineering Department, Baton Rouge, Monday, 19, 09, 2003.

## FUNDED PROJECTS

1. Seismic hazard zoning and earthquake risk mapping in Jordan and vicinity, Funded by Deanship of Scientific Research at Jordan University of Science and Technology. Report No. 17/92, 1992-1993.
2. *Seismic hazard assessment and evaluation of dynamic site period in Aqaba city*, Funded by Deanship of Scientific Research at Jordan University of Science and Technology. Joint Research JUST and Yarmouk University. Report No. 39/93, August 1993- 1995.
3. *Instabilities of cut slopes and embankments along highways in northern Jordan and their remedies*, Funded by Deanship of Scientific Research at Jordan University of Science and Technology. Report No. 22/94, April 1994- April 1995.
4. *Geological, Engineering and Hydrological Evaluation of Landslides in Jordan*, Funded by the Higher Council for Science and Technology. Amount 30000 JD. Jan. 1995-Dec. 1997.
5. Geotechnical Team Leader for the project entitled "Earthquake hazards evaluation and methods of mitigating their environmental impact" Funded by the Higher Council for Science and Technology. Amount 150,000 JD (\$250,000 US). Period 1996 to 2000.
6. *Thermal-structural stresses measurement for RCC dam, case study of Mujib and Wala dams*, Funded by the Deutsche Forschungsgemeinschaft (DFG) jointly with Technische Universitat Munchen. Oct. 2000-December 2005. Amount 500000 US\$. Team Leader
7. Collaboration and capacity building in seismology-methodology for assessing earthquakes impact on health, environment, and infrastructures in UAE, funded by the Deanship of the University of Sharjah in UAE 15000.0 US\$. Project Team Leader
8. Improvement of water related cooperation between Jordan University of Science and Technology and Technische Universitat Munchen, Amount 68000 Euros, 2006-2008. Team Leader
9. ICT Learning Program, Project JEP 32162-2006-2009, Funded Project. Amount 447162 € (EUR) by EU, Tempus Project, Project Coordinator.

**External University Funded Project during My Presidency at JUST (Million JD).**

Project	Donor	Amount (M.JD)	Project Status
Central Library and Classrooms Hall Equipment & Furniture	Japanese Grant	2.25	Completed in 2012
Princess Haya Biotechnology Center Lab Equipment	Princess Haya Bent Alhussien	0.36	Completed in 2012
Dental Educational Clinics (55 chairs)	Saudi Grant for Tech. Education	0.70	Completed in 2013
Engineering Laboratories Equipment	Saudi Grant for Tech. Education	0.70	Completed in 2014
Communication Engineering Labs	Saudi Grant for Tech. Education	0.60	Completed in 2014
Computers and Network equipment	Kuwaiti Grant	0.09	Completed in 2014
Green House Building Model	UNDP	0.62	Completed in 2014
Metrological Station	Jordan Atomic Authority	0.11	Completed in 2014
Pharmaceutical Laboratories	Saudi Grant for Tech. Education	0.16	Completed in 2014
Bio-risk Lab, Princess Haya Biotechnology Center	Sandia (USA), Canada & UK	3.50	Completed in 2015
Dental Educational Clinics (23 chairs)	Saudi Grant for Tech. Education	0.50	In progress
Administration Building (6000 m2)	Saudi Grant for Infrastructure	2.00	In progress
Medical Waste Treatment Plant	Abu-Dhabi Development Fund	0.70	Contract awarded
PV Solar Energy farm (5 M Watt)	Abu- Dhabi Development Fund	6.00	Contract awarded
University Mosque Renovation	UAE Citizen	0.76	In progress
Vet. Educational Hospital (6000 m <sup>2</sup> )	Abu- Dhabi Development Fund	3.00	Design review
<b>Total</b>		<b>23.54</b>	<b>Million JD</b>

**Funds Raising during My Presidency at JUST (JD).**

1. Poor students' fund 258,000 JD
2. University alumni's contributions 053,700 JD
3. University hosted conferences donations 076,700 JD

**BOOKS**

1. **Husein Malkawi, A.I.**; Fahmi, Kh.J.; Al-Sheriadeh, M. and Abderahman, N. (1998) "Geological, Engineering and Hydological Evaluation of Landslides in Jordan" Published by the Higher Council for Science and Technology. Pp.16
2. **Husein Malkawi; A. I.**; Markus A.; Strobl, Th. (2002) " Roller Compacted Concrete Dam Construction in the Middle East" Editors, Published by Jordan University of Science and Technology and Munchen Institute of Technology, Germany.
3. **Husein Malkawi, A.I.**, Abed, A and Hammouri, N.A (2002) "Remote Sensing and GIS-Assisted Modeling of Soil Induced Erosion Hazards: A Case Study in Zarqa Basin" Published by the Higher Council for Science and Technology, pp. 105.
4. Alshibli, Kh; **Husein Malkawi, A.I.** and Alsaleh M. (2004) "Advances in Geotechnical Engineering with Emphasis on Dams, Highway Materials, and Soil Improvement" Editors, Geotechnical Practice Publication No. 1, Published by the American Society of Civil Engineers (ASCE).
5. **Husein Malkawi, A.I.**; Barakat, S.; Shanableh, A.; Bdour, A.; Omar, O.; Altoubat, S. (2007) "Seismic Hazard Assessment and Earthquake Risk in the United Arab Emirates" University of Sharjah Publications.



6. **Husein Malkawi, A.I** and Tsur, Y (2015) "Reclaiming the Dead Sea: Alternatives for Action" "Society-Water-Technology", Book Chapter, Berlin-Brandenburgische Akademie der Wissenschaften Interdisziplinäre Arbeitsgruppe Gesellschaft-Wasser-Technik
7. Abed, A. and **Husein Malkawi, A. I** (2017) "تطبيقات علم الفلك في الإسلام" in print

#### REFEREED JOURNALS

1. Bani-Hani, Kh. A., **Malkawi Husein, A. I** (2017) "A Multi-step approach to generate response-spectrum-compatible artificial earthquake accelerograms" *Soil Dynamics and Earthquake Engineering* 97 (6), 117-132.
2. Izzaldin Almohd-Ayasrah, Ahmed Ashteyat, **Husein Malkawi, A.I** (2013) "Design of Geogrid Reinforced Earth Walls: Transition of Limits and Critical Surfaces" *Transportation Research Board 92<sup>nd</sup> Annual Meeting*, Issue 13-1422.
3. Al-Akhras, N.M.; Attom, M.; Al-Akhras, K.; and **Husein Malkawi, A.** (2008) "Influence of fiber on swelling properties of clayey soil", *Geosynthetics International*, 15, No.4
4. Barakat, S.A., Shanableh, A. and **Husein Malkawi, A.I** (2008) "A Comparative Earthquakes Risk Assessment Approach Applied to the United Arab Emirates" *JJCE Vol.2, No. 2.*
5. Wael Alkasawneh, W. **Husein Malkawi**, Nusairat, J.H and N. Albataineh. (2008)" A Comparative Study of Various Commercially Available Programs in Slope Stability Analysis" *Computer and Geotechnics Journal*.
6. Hommouri, N.; **Husein Malkawi, A.I** and Yamin, M. (2008) "Stability Analysis of Slopes Using Finite Element Method and Limiting Equilibrium Approach" *Bulletin of Engineering Geology and the Environment*, Vol. 67, No. 4.
7. Alkasawneh, W., **Husein Malkawi, A.**, Nusairat, J. And Albataineh N. (2007)" A Comparative Study of Various Commercially Available Softwares in Slope Stability Analysis" Submitted to TRB.
8. Barakat, S; **Husein Malkawi, A.I** and M. Omar (2005) "Parametric Study using FEM for the Stability of the RCC Tannur Dam" *Geotechnical and Geological Engineering*, 23:61-78.
9. **Husein Malkawi; A. I**; Markus A.; Strobl, Th.; Mutasher, S. And Al-Jammal, M. (2004) " Computational of Thermal and Structural Stresses for Roller Compacted Concrete RCC Dams Using Linear and Nonlinear Properties" *International Journal of Hydropower and Dams*, July. 2004.
10. Husein Malkawi; A. I.; Mutasher S.A. and Qiu Tony (2003) "Thermal-Structural stresses Modeling and Temperature Control of RCC Gravity Dam" November 2003, *ASCE Journal of Performance of Constructed Facilities*
11. **Husein Malkawi, A.I**; Hassan, W.F. and S.K. Sarma (2003) "Reply to Discussion of - An efficient search method for locating circular slip surface using Monte Carlo Technique", By V.R. Greco, *Canadian Geotechnical Journal*., February.
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<u>Citation indices</u>	All	Since 2013
<u>Citations</u>	1825	768
<u>h-index</u>	19	13
<u>i10-index</u>	29	20