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EDUCATIONAL BACKGROUND

Ph.D. in GEOTECHNICAL ENGINEERING, 1994.

Utah State University, Logan, Utah, U.S.A.

Dissertation Subject: Modeling of Geological Materials and Finite Element Applications.

MS in SOIL MECHANICS and FOUNDATION ENGINEERING, 1988.

The University of Newcastle upon Tyne, Newcastle, England.

Thesis: "Finite Element Analysis for a Preliminary Study of BASP (Bridge Approach Support Piling) System".

BS in CIVIL ENGINEERING, 1985.

An-Najah National University, Nablus, West-Bank, Palestine.

RELATED WORK EXPERIENCE

ASSOCIATE PROFESSOR, Department of Civil Engineering, An-Najah National University, Nablus, West-Bank. October 2009 to Present.

DEPARTMENT HEAD, Civil Engineering Department, An-Najah National University, Nablus, West-Bank, Palestine. August 2006 to August 2011.

DEPARTMENT HEAD, Civil Engineering Department, An-Najah National University, Nablus, West-Bank, Palestine. October 2000 to November 2003.

ASSISTANT PROFESSOR, Department of Civil Engineering, An-Najah National University, Nablus, West-Bank. October 1995 to October 2009.

RESEARCH ASSISTANT, Department of Mechanical and Aerospace Engineering, Utah State University, Logan, Utah. Modeling of Geological Materials (Soils, Rocks, and Concrete) and Finite Element Applications. April 1992 to October 1994.

TEACHING ASSISTANT, Department of Civil and Environmental Engineering, Utah State University, Logan, Utah. Courses include: Soil Mechanics, Foundation Engineering, FORTRAN, Strength of Materials, and Materials Science. October 1990 to June 1992.

RESEARCH ASSISTANT, Utah Water Research Laboratory, Utah State University, Logan, Utah. Assisted in performing erosion control tests in rainfall and sunlight simulators and in high velocity flume. June 1990 to 1994.

LABORATORY ENGINEER, Civil Engineering Department, An-Najah National University, Nablus, West-Bank. Conducted quality assurance tests on soils, asphalt, cement, concrete, etc. January 1989 to March 1990.

TEACHING and RESEARCH ASSISTANT, Civil Engineering Department, An-Najah National University, Nablus, West-Bank. Assisted in different courses such as, Soil Mechanics and Foundation Engineering, Structures, Transportation Engineering. Conducted tests in Soil Mechanics, Transportation Engineering, and Materials Laboratories. May 1985 to October 1987.

DESIGN ENGINEER, Gore Fara' Irrigation Scheme, Nablus, West-Bank. Analyzed and designed: Sedimentation Tanks (Structures and Hydraulics), Hydraulic Structures, and Buried pipelines. January 1985 to October 1987.

AREA OF INTEREST

- Finite Element Modeling, Constitutive Laws, and Computer Methods in Geotechnical Engineering.
- Finite Element Analysis of Soil-Structure Interactions.
- Soil Reinforcement Techniques for Retaining Walls and Embankments.
- Earth Retaining Structures.
- Settlement Analysis of Foundations on Soft and Granular Soils.
- Laboratory and Field Testing in Geotechnical Engineering.
- Rock Engineering and Rock Mechanics.
- Geotechnical Earthquake Engineering.
- Soil Improvement Techniques.
- Geoenvironmental Technology.

PUBLISHED PAPERS AND REPORTS

- Jardaneh, I., Al-Dabbeek J. and Al-Sahili K., **Slope Instability of Nablus – Al-Bathan Road**, to be published, International Conference on Civil Engineering, ICCE, 28-30, October, 2013, Al Bireh, Palesitne.
- Asma L., Hijazi I. and Jardaneh, I., **Generating a geotechnical map for the city of Nablus by means of GIS software**, to be published, International Conference on Civil Engineering, ICCE, 28-30, October, 2013, Al Bireh, Palesitne.
- Al-Dabbeek, J. and Jardaneh, I. **Slope Stability Analysis and Landsliding Studies Based on Geophysical Seismic Exploration**, UNESCO Sub-RELEMR International Workshop, 5-6 November 2012, Cyprus Geological Survey Department – GSD, Larnaca – Cyprus.
- El-Kelani, R. and Jardaneh, I. **Surface Soil Effect Using Microtremor Observations in Nablus City, Palestine**, Journal of Islamic University, Gaza, Natural Sciences and Engineering, Volume 19, Number 2, pp 99 - 112, 2011.
- Jardaneh, I. **Simplified Analysis and Design of Bored Cast in-situ Reinforced Concrete Cantilever Sheet Pile Walls in Clayey Soils**, Journal of Islamic University, Gaza, Natural Sciences and Engineering, Volume 17, Number 1, June, 2009.
- Jardaneh, I. **Geotechnical Map for Nablus City, Palestine**, Journal of An-Najah National University, Natural Sciences, Vol. 21, 2007.
- Jardaneh, I. **Assessment of Local Excavation Systems: A Case Study of Nablus City, Palestine**, Journal of An-Najah National University, Natural Sciences, Vol. 20, 2006.
- Jardaneh, I., Dabeek, J., and Al-Jwahari, A., **Landslides in the White Mountain (Geotechnical Studies and Engineering Tests)**, Journal of Al-Azhar University, Gaza, Vol. 7, No. 2, 2004.
- Jardaneh, I., **Evaluation of Ground Response Due to Earthquakes – Case Study**, Journal of Applied Sciences 4 (3): 364-368, 2004.
- Jardaneh, I., Dabeek, J., and Al-Jwahari, A., **Landslides in the White Mountain (Geotechnical Studies and Landslides Corrections)**, Engineering Tests and Developments in Construction Industry Seminar, Beirzeit University, Beirzeit, Palestine, 1998.
- Jardaneh, I., Dabeek, J. and Jawharee A., **Landslides at Al-Jabal Al-Abiadh, Nablus., Report presented to Municipality of Nablus**, Nablus, West-Bank, Palestine. 1996.
- Jardaneh, I., Fronk, T. H., and Anderson, L. R., **A Modified Cap Model Implemented in**

- DYNA-3D**, *30th Symposium on Engineering Geology and Geotechnical Engineering*, Boise state University, Boise, Idaho, 1994.
- Jardaneh, I., Fronk, T. H., and Anderson, L. R., **Developments and Shortcomings of the Cap Model Implemented in the Finite Element Method for Modeling Geological Materials**, *29th Symposium on Engineering Geology and Geotechnical Engineering*, University of Nevada, Reno, Nevada, 1993.
- Jardaneh, I., and Fronk, T. H., **Use of the Cap Model in Rock Mechanics**, D. G. I. Report, 1992.
- Fronk, T. H., Jardaneh, I., and Jorgensen, B., **Assessment of Finite Element Codes Capabilities to Solve Rock Mechanics Problems**, D. G. I. Report, 1992.
- Jardaneh, I. G., and Jones, C.J.F.P., **Finite Element Analysis for a Preliminary Study of BASP (Bridge Approach Support Piling) System**, Imperial Chemical Industries PLC (ICI) Report, 1988.

CONSULTANCY WORK

- Geotechnical Engineering Consultant, Massar Company, Ramallah, Palesitne (through the University) for establishing the new City called Rawabi Community (2008 to 2010).
- Geotechnical Engineering Consultant, Construction and Transportation Research Center, An-Najah National University, Nablus, Palestine. (2000 to present).
- Geotechnical Engineering Consultant, Earth Sciences and Seismic Engineering Center, An-Najah National University, Nablus, Palestine. (1998 to present).
- Geotechnical Engineering Consultant, Engineering Works Department, An-Najah National University, Nablus, Palestine. (1994 to present).

The above consultancy work are include but not limit to the following tasks:

- Analysis and correction measures of Landslides in Al-Bathan Road, Nablus, Palestine, 2012.
- Analysis and correction measures of Landslides in Dair Sharaf – Bezaria Road, Nablus, Palestine, 2011.
- Analysis and correction measures of Landslides in the White Mountain, Nablus, Palestine, 1996.
- Site investigation for Jawwal Tower, including design of sheet piles, Al-masaken Al-Shaabieh, Nablus, Palestine, 2001.
- Site Investigation for Al-Judideh and Sirees Earth Dams, Marj Sanour, Jenin, Palestine, 2001.
- Site investigation for Al-Quran Al-kareem radio tower, Nablus, Palestine, 2006.
- Stability Analysis for several sites in Nablus District, Palestine.
- Analysis and Design of several Sheet Pile projects (Excavation Support).
- Site Investigation for several sites in Palestine, such as:
 - Jenin Refugee Camp
 - Jenin Industrial Zone
 - Nablus New Municipality Building
 - Several Commercial Buildings

- Several Schools
- Several Residential Buildings
- The new compass of An-najah National University

ASSOCIATIONS

Engineers Association, Jerusalem Center, since 1985.

Professional Engineer, State of Utah, since 1993.