

## **ISAM JARDANEH Ph.D., P.E.**

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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**

**ASSOCIATED 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**

- 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., Dabeeq, 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., Dabeeq, 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., Dabeeq, 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.