

# Samir H. Helou Ph.D., P.E.

Civil Engineering Department, An-Najah National University, Nablus, Palestine  
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## Current Position;

Assistant professor; Civil Engineering Department, An-Najah National University September 1981- ongoing

## Education:

- Doctor of Philosophy in Structural Engineering  
Minor: Engineering Science and Mechanics  
May 1981, North Carolina State University  
Raleigh, North Carolina

Courses taken covered the area of advanced structural analysis subject to static and dynamic loadings. While the research focused on a closed form solution to a Fluid-Structure interaction problem. That is, the study of the response of marine structures due to earthquake excitation.

- Master of Science in Hydraulic Structures with a  
Minor: Applied Mathematics.

The emphasis was on the Engineering of Hydraulic Structures.  
December 1975  
Oregon State University,  
Corvallis, Oregon.

- Bachelor of Science in Civil Engineering  
February 1973

American Roberts College,  
Istanbul, Turkey

## **Work Experience:**

- ✓ Ministry of Higher Education; Quality Assurance and Accreditation Department.
- ✓ Palestinian Water Authority- Project Coordinator-"Improvement of Bulk Water Management in the West Bank" , Funded By AFD (French Agency for International Development)
- ✓ Palestinian Land Authority- Team Leader, "Land Administration Project" Funded by the World Bank.
- ✓ Manager of the Structural Steel Design Center, An-Najah National University, 2012

## **Certification and Professional Registration:**

- Registered Professional Engineer in the State of North Carolina.
- Registered in the Jordan Association of Engineers.
- Registered in the Israeli Society of Engineers.

## **Extra Curricular Activities and Skills:**

- Chairman of the Parents-Teachers Association [2012-2013] Al-Ahliyye School- Ramallah
- Extensive Experience in the Construction Industry.
- Extensive experience in report writing (English & Arabic) and in Project Management.
- Conversant in Structural Modeling using major FEM Modeling Programs such as, SAP 2000, STAAD Pro, SAFE and ETABS/ Static & Dynamic Analysis & Design / Earthquake Engineering.

## **Courses Taught:**

1. Statics
2. Mechanics of Materials
3. Analysis of Structures 1, 2
4. Finite Element Method in Structural Analysis
5. Reinforced Concrete 1 & 2
6. Design of Steel Structures

## **Publications:**

1. "Dynamics of Internal Waves in a Cylindrical Tank: ASCE Journal of the Waterway, Port, Coastal and Ocean Engineering, Vol. III, N°2, March 1985
2. "A Detailed and Simplified Solution to Hydrodynamic Forces on Submerged Tanks, Subject to Lateral Ground Excitation" Journal of Science, Al-Najah National University, Section II, Volume I, January 1988.
3. "Mathematical Analysis of a Vibrating Rigid Water Tank" Journal of Science, An-Najah National University, Volume I, December 1989
4. A study of flexible Submerged Cylindrical Tank, subject to Lateral Ground Excitation" Journal of Science, Al-Najah National University.
5. "Evaluation of the Stiffness Matrix of an Indeterminate Truss Using Minimization Techniques", Concrete Technology for Developing Countries, Fourth International Conference, Eastern Mediterranean University, November 1996, Gazimagusa, North Cyprus.
6. Retrieval of System Properties of Existing Structures" International Association for Bridge & Structural Engineering, Colloquium Copenhagen, Denmark 1993.
7. "Evaluation of the Stiffness Matrix of an Indeterminate Truss Using Minimization Techniques" Journal of Science, Al-Najah National University.
8. "Evaluation of the Stiffness of Beam & Frame elements using System Identification", 1<sup>st</sup> Palestinian Engineering Conference, Nablus 1993.
9. "Rain Water Roof Catchments Systems as Means to Partially Alleviate Water Shortage in the West Bank", 1<sup>st</sup> Palestinian Engineering Conference, Nablus 1993.
10. "Dynamic Behavior of Reinforced Concrete Structures with Infill Walls", Scientific Journal, An-Najah National University.

11. "The Effect of Shear wall Distribution on the Seismic Response of Reinforced Concrete Masonry Structures." (2008 Seismic Engineering International Conference, Reggio Calabria and Messina, Italy. July 2008)
12. "A Scrutiny of the Equivalent Lateral Static Load Method of Design for Multistory Masonry Structures" (2008 Seismic Engineering International Conference, Reggio Calabria and Messina, Italy, July 2008)
13. "Column Replacement Project-case study"- Bethlehem University Journal, 2010.
14. "Assessment of the Practical Training Requirement in Engineering Education in Palestinian Universities"; Academic Colloquium 2010; Ramallah July 31<sup>st</sup> - August 1<sup>st</sup>, 2010.
15. "Assessment of the Practical Training Requirement in Engineering Education in Palestinian Universities", Fifth International Forum on Engineering Education, University of Sharjah, UAE, 2010. Coauthored with Riad Abdelkareem.

**References are available upon request**