



# RESUME

**Dr. ANIS S. SHATNAWI**

**Associate Professor of Civil Engineering/Structural Engineering**

**Permanent address:**

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## **PERSONAL DATA:**

Nationality: Jordanian

Place and date of birth: Irbed-Jordan, August 13, 1969.

Marital Status: Married with 4 children

## **KEY QUALIFICATIONS:**

Expert and well-developed skills in civil engineering projects, who specialized in dealing with complex problems and emerge with credible solutions for structural behavior, structural design, dynamics of structures and International specifications and contracting documents. His particular areas of interest are Structural Analysis and Design by utilizing International related Codes of Practice and International Specifications, Structural and Computational Mechanics, Applied and Solid Mechanics, Earthquake Engineering, and Finite Element Modeling.

Shatnawi's professional experience integrates both technical and management oriented tasks for projects with a broad of complexity. As a director of Engineering Project Department at The University of Jordan, UoJ, and a director of the Office of Follow-up and Implementation for the Project of University of Jordan at Aqaba, Dr. Shatnawi conducted extensive work on project management, and utilizing Codes and Specifications in a broad of huge construction projects. He has a wide range of experience in managing and implementation of large and fast track projects. In his management experience he was responsible for planning, executing and implementing the engineering construction projects at the UoJ. As Project Director for the new branch of UoJ his duties include planning projects, writing proposals for external funding, preparing work plans, reviewing the execution and implementation of activities, and coordinating the activities of more than 70 engineers and technician staff and activities with local, governmental and regional parties. Some activities cover industrial consultancy, training, workshops and conferences, studies and research in the area of structural engineering construction, management, feasibility study, financial analysis, construction, infrastructures, water resources management and policy, and strategic educational planning related to the project.

Dr. Shatnawi is experienced in collaborating and working in technical review for many related codes of practice at the Ministry of Public-Works and Housing and the Royal Scientific Society in Jordan. He has provided comprehensive services to local and public community through providing many training courses, planning and implementation in a project for enhancement of Quality Assurance and Institutional Planning at Arab Universities, and feasibility study for new founded branch of The University of Jordan at Aqaba, and extensive participation in technical teams with different governmental and non-governmental organizations in Jordan.

Also, as an associate professor of structural engineering at the Department of Civil Engineering at The University of Jordan (on leave since February 2011, currently serves as a visiting associate professor at Abu Dhabi University), was an acting director for the Engineering Projects Department at the University of Jordan, and director and project manager for the project of new branch of the University of Jordan at Aqaba where a huge and several project were managed by him. He was the Head of the Department of Civil Engineering Department, and the Assistant Dean for Student Affairs at Faculty of Engineering at UoJ.

Dr. Shatnawi is a technical advisor to some Jordanian governmental agencies and Ministries, research institutions, and a technical consultant to local and international consulting firms in Jordan and abroad in the area of structural engineering, and structural rehabilitation. Dr. Shatnawi gained a wide international experience in the area of engineering profession and education and quality assurance with management and planning for engineering programs in the Arab Region through certified training held by UNDP for 6 Months. Dr. Shatnawi is selected by UNESCO project to be one of the founders of an Arab Society for Engineering Education and Quality Assurance.

Dr. Shatnawi developed a national and international reputation in his area; he participated in more than 60 international technical meetings in North America, Europe, and the Middle East. He published more than 25 publications in refereed journals, conference proceedings and technical reports. Dr. Shatnawi is a reviewer for several International Refereed Scientific Journals.

## EDUCATION

❖ THE UNIVERSITY OF AKRON, Akron, OH-USA

**Ph.D.** of Science in CIVIL ENGINEERING/STRUCTURAL AND COMPUTATIONAL MECHANICS, 1998-2001. **GPA (4.00/4.00)**

**Dissertation:** *“Developments for complex inelastic large-scale simulations and parameter estimation, with emphasis on large strain, softening and localization phenomena, Ph.D. Dissertation*, submitted to the graduate faculty of the University of Akron in partial fulfillment of the requirement for the degree of Doctorate of Science, Dec., 2001”.

❖ JORDAN UNIVERSITY OF SCIENCE & TECHNOLOGY, JORDAN

**Master** of Science in CIVIL ENGINEERING / **Structural Engineering**, 1993-1996.

**Thesis:** “Evaluation of ductility, ductility reduction and over-strength factors as applied to Jordanian Seismic Code, **Master Thesis** submitted to the graduate faculty of Jordan University of Science and Technology in partial fulfillment of the requirement for the degree of Master of Science, May, 1996.

❖ JORDAN UNIVERSITY OF SCIENCE & TECHNOLOGY, JORDAN

**Bachelor** of Science in CIVIL ENGINEERING/**Structural Engineering**, 1988-1993.

**ACADEMIC AND PROFESSIONAL EXPERIENCE**

Sept '11 - Present	<p>Abu Dhabi University, Department of Civil Engineering, Abu Dhabi, UAE  <b>Faculty Member, Associate Professor (Structural Division).</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Taught several courses for undergraduate level.</li> </ul> <p><b><u>Undergraduate Level:</u></b> Statics, Materials of Construction and Laboratory, Design of Steel Structures, Design Reinforced Concrete Structures I and II</p>
Oct '02– Present: (On leave)	<p>The University of Jordan, Department of Civil Engineering, Amman, Jordan  <b>Faculty Member, Associate Professor (Structural Division).</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Taught several courses for graduate and undergraduate levels. <ul style="list-style-type: none"> <li>- <b><u>Undergraduate Level:</u></b> Statics, Structural Mechanics, Solids Mechanics, Structural Analysis I, II, and III, Reinforced Concrete Design I and II, Steel Structures, Concrete Technology, Labs of Concrete Properties, Materials of Constructions, and Introduction to Earthquake Engineering.</li> <li>- <b><u>Graduate Level:</u></b> Finite Element Analysis, Advanced Solid Mechanics, Earthquake Engineering, Energy Methods and Elasticity, Structural Stability, Advanced Numerical Methods, and Dynamic of Structures.</li> </ul> </li> <li>• Participated in many civil engineering seminars and workshops.</li> <li>• Supervised graduation projects for many undergraduate students.</li> <li>• Supervised many M.Sc. and Ph.D. graduates related to structural analysis and design using related International codes and Specifications, dynamic of structures, and seismic behavior of structures.</li> <li>• Performed local and international research activities in my area and published my work in refereed journals.</li> <li>• Served in many committees related to several development activities on campus.</li> <li>• Participated in strengthening the links between the University of Jordan and other local and international institutions.</li> <li>• Worked on developing the engineering management systems of the University of Jordan to obtain international accreditation.</li> <li>• Participating in three workshops about ABET Accreditation, which were held at Faculty of Engineering and Technology in the University of Jordan in 2006 and 2007.</li> <li>• Attended residential workshop on Academic Subject Review for Engineering programs, organized by UNDP, Tunisia, 11-14 June, 2007.</li> <li>• Attended two residential workshops on Academic Subject Review for Engineering programs, organized by UNDP, Sharm El-Shaikh, Egypt, 10-17 Nov., 2007.</li> <li>• Hosted an external peer reviewer of a higher education program at</li> </ul>

	<p>University of Jordan-Civil Engineering Department, including producing evidence-based Self-Evaluation report, March, 2008.</p> <ul style="list-style-type: none"> <li>• Worked as a reviewer specialist and team member in the peer review of engineering programs at Helwan University, Egypt, 20-25 Feb., 2008.</li> <li>• Participated and presented a paper at civil Engineering Conference organized by Jordan Association for Engineers, 2006.</li> <li>• Prepared and presented training session at Jordan Association for Engineers about using Finite Element Method for Structural Analysis.</li> <li>• Participated and presenting in the seminar entitled Earthquake Resistant Structure held by Ministry of Public works and Housing and higher Council for civil Defense on Oct. 16, 2003, Amman, Jordan.</li> <li>• Refereed many international publications in: Structural Engineering and Mechanics, Acta Mechanica, Thin-Walled Structures, Jordan Journal of Civil Engineering, Yarmouk Researches, Journal of An-Najah National University.</li> <li>• Refereed many submitted papers for The International Earthquake Engineering Conference, Dead Sea, Jordan, 21-24 Nov., 2005.</li> <li>• Refereed for research reports submitted to the Higher Council for Scientific Research- Jordan, 2009.</li> </ul>
<p>Oct. '09– Feb. 2011:</p>	<p><i>The University of Jordan, Amman, Jordan</i>  <b>Acting Director, Engineering Projects Department</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Prepared and formulated a short and long term strategic plans for construction projects.</li> <li>• Supervised projects implementations, ASTM standards, Fedic, and Design Codes, and Quality Control and assurance.</li> <li>• Conducted value engineering to optimize cost and safety.</li> <li>• Participated in selection and hiring of the projects staff.</li> <li>• Supervised the technical work of the projects staff (i.e. Design and plans' preparation).</li> <li>• Coordinated daily construction activities.</li> <li>• Inspected fieldwork to verify quality and compliance with international specifications.</li> <li>• Wrote progress reports in regular basis to keep top management personal informed.</li> <li>• Coordinated projects activities with the consulting firms and contractors.</li> <li>• Supervised the preparation of the tender documents for several construction projects.</li> <li>• Supervised the time schedule and budgeting flow for the project.</li> </ul>

Oct. '08– Feb. 2011:	<p><i>The University of Jordan, Amman, Jordan</i>  <b>Acting Director, Office of Implementation and Follow-up for the Project of Jordan University/Aqaba</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Prepared and formulated a short and long term strategic plans for construction projects.</li> <li>• Designed and planned mechanisms of implementation for the project as a fast track one.</li> <li>• Coordinated all activities related to different committees linked to the project.</li> <li>• Followed-up the implementation process and evaluated strengths and weaknesses.</li> <li>• Conducted value engineering to optimize cost and safety.</li> <li>• Participated in selection and hiring of the projects staff.</li> <li>• Inspected fieldwork to verify quality and compliance with specification.</li> <li>• Wrote progress reports in regular basis to keep top management personal informed.</li> <li>• Coordinated projects activities with the consulting firms and contractors.</li> <li>• Supervised the preparation of the tender documents for several construction projects.</li> </ul>
Oct. '08– Feb. 2011:	<p><i>The University of Jordan, Amman, Jordan</i>  <b>Project Manager, Construction Project of Jordan University at Aqaba</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Administrated and supervised the technical work of the projects staff (more than 70) including the design and plans' preparation.</li> <li>• Supervised and coordinated daily construction activities.</li> <li>• Lead regular based meeting with technical supervising staff and contractors.</li> <li>• Supervised the time schedule and budgeting flow for the project and related measurement process.</li> </ul>
Sept '07– Sept '08:	<p><i>The University of Jordan, Faculty of Engineering and Technology, Amman, Jordan</i>  <b>Assistant Dean for Students' Affairs</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Performed and managed the required consulting for engineering students during their acadmic life at the University.</li> <li>• Reviewed and conducted the students appeals on their exams results.</li> <li>• Followed and helped weak students in their performance and enhancement.</li> <li>• Assisted and managed students in their social activities.</li> </ul>

Sept '06– Sept '07:	<p><i>The University of Jordan, Department of Civil Engineering, Amman, Jordan</i>  <b>Department Head</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Carried out yearly academic plans for the department including course plans and contents, exams, and academic activities.</li> <li>• Administrated faculty members and supervised their teaching performance and outlined methods of enhancements.</li> <li>• Organized and headed meetings, presentations, seminars, and workshop activities at the Department.</li> <li>• Administrated the financial budget for the department and managed accessibility of all facilities required for teaching and research ongoing.</li> <li>• Administrated department staff members and supervised their performance in student serve.</li> <li>• Semesterly reported to the Dean of Engineering College.</li> </ul>
Dec. '01– July '02:	<p><i>The University of Akron, Department of Civil Engineering, Akron, OH, USA</i>  <b>Postdoctoral Research Associate (<i>Computational Methods Group</i>)</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Participated on a research funded by NASA on material parameter estimation for characterizing generalized multimechanism viscoelastic constitutive models coupled to damage for Titanium alloys.</li> <li>• Participated on a research funded by Cleveland Clinic-Ohio concerning to generating a theoretical model and computer algorithm for the behavior of soft tissues.</li> <li>• Produced comprehensive technical reports for funding agencies and research reviews.</li> </ul>
Jan '98 – Dec. '01:	<p><i>The University of Akron, Department of Civil Engineering, Akron, OH, USA</i>  <b>Graduate Research and Teaching Assistant</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Participated in a research funded by NASA concerning theoretical investigation of structural material behavior in advanced materials.</li> <li>• Participated in a research funded by NASA to perform structural integrity assessments (i.e.; strength, stress-strain analysis, macro damage, and damage localization) for smart materials with a wide spectrum of stressess, temperature, and time domain.</li> <li>• Participated in developing a model of time-dependent hyperviscoelasticity under large strain including integration alogorithms, computer implementation and practical applications.</li> <li>• Contributed in a project of in-situe bridge life prediction relating to a bridge rating of HEN-108-1561 SR 108 over Mauamee River, Napoleon, Ohio-USA.</li> <li>• Produced comprehensive technical reports for funding agencies and research reviews.</li> </ul>

April '95 - Jan '98:	<p><i>Ministry of Public Works &amp; Housing, Amman, Jordan</i>  <b>Structural Design and Project Site Engineer</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Performed structural designs for several governmental buildings.</li> <li>• Participated in planning and load testing for different projects of state buildings.</li> <li>• Participated and developed of structural design and planning of a flyover bridge on main junction of road traffic.</li> <li>• Heavily participated on quality assurance and quality control of several state projects.</li> <li>• Participated in implementation and supervising of a soccer stadium project at Zarqa-Jordan.</li> </ul>
Sept '93 - June '96:	<p><i>Jordan University of Science &amp; Technology, Dept. of Civil Eng., Irbed, Jordan</i>  <b>Graduate Research and Teaching Assistant</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Performed a research in evaluation of ductility, ductility reduction and over-strength factors as applied to Jordanian Seismic Code.</li> <li>• Supervised and taught of many undergraduate civil engineering laboratoryies such as; laboratoryies of material science, construction materials, and engineering drawing.</li> <li>• Supervised and assisted in teaching of many undergraduate civil engineering courses such as; statics, mechanics of solids, structural analysis I and II, reinforced concrete I and II, prestressed reinforced concrete, engineering economy, and others.</li> </ul>
Feb. '93 – Aug. '93:	<p><i>Arkadia Engineering Consulting Company, Amman, Jordan</i>  <b>Site Engineer</b></p> <p><b><u>Tasks include:</u></b></p> <ul style="list-style-type: none"> <li>• Spervised the implementation of construction project of goovernmental school (6000 m<sup>2</sup>) at Irbed-Jordan.</li> <li>• Wrote progress reports in regular basis to keep top management personal informed.</li> </ul>

**OTHER PROFESSIONAL EXPERIENCE:*****Internal Community Services and Consultants***

- Member of Central Tenders Committee at the University of Jordan- Jordan.
- Member of Buildings and University Campus Committee at the University of Jordan- Jordan.
- Chairman, ABET committee at the Department of Civil Engineering, The University of Jordan.
- Member, ABET committee at the Faculty of Engineering and Technology, The University of Jordan.
- Member, UNDP project for enhancement of Quality Assurance and Institutional Planning at Arab Universities/ Faculty of Engineering and Technology, The University of Jordan.
- Member of Exams Committee at Civil Engineering Department at the University of Jordan- Jordan.
- Member of Programs Studying Plans Committee at Civil Engineering Department at the University of Jordan- Jordan.
- Member of Many Examination Committees for Master Theses and Ph.D. Dissertations Defense.
- Member of College Steering Committee. Several times.

***External Community Services and Consultants***

- Member of many Technical Reviewing Committees for Jordanian Codes and Specifications/Ministry of Public Works and Housing Since 2005.
  - Participated in technical reviewing of Jordanian Normal and Reinforced Concrete Code.
  - Contributed in technical reviewing of Jordanian Code for Earthquake Resistant Structures.
  - Participating in technical reviewing of Jordanian General Building Specifications.
- Member of many Technical Committees at the Royal Scientific Society in Jordan 2008-2012.
  - Participated in technical reviewing of Jordanian Code for Water Tanks and Reservoirs.
  - Participated in technical preparing of Arab Code for Earthquake Resistant.
  - Participated in technical reviewing of Arab Building Code.
  - Prepared Technical Specification of Roads Safety and Black Spots.
- Participated as a member of Jordanian National Technical Committee Technical Board in preparing of reinforced concrete building code of practice, Ministry of Public Works and Housing- Jordan, 2005-2007.
- Contributed in preparing the code of earthquake resistant structures, Ministry of Public Works and Housing- Jordan, 2004-2006.
- Contributed in preparing the General Specifications for Civil Works, Ministry of Public Works and Housing- Jordan, 2010.
- Participating in technical reviewing for Jordanian Green Building Code, Jordan Engineers Association.
- Member of Jordan Society for Renewable Energy (JSRE). Playing major roles in community services and studies, 2008-present. Participated in establishing and spreading community's knowledge and



recognizing of the importance of renewable energy sources and their efficiency in different life aspects. Also, participated in many related seminars and workshops concerning achievements of JSRE goals through finding of sustainable strategic plans for utilizing renewable energy sources in Jordan.

- Performed and carried out a consultancy project on laboratory testing and using 3D panel system in building technology. Senior consultant for Ma'an Development Company, Amman-Jordan.
- Performed and carried out a consultancy project on laboratory testing and using a fiber reinforced precast concrete system in building technology. Senior consultant for Modern Technology Construction Company, Amman-Jordan.
- Performed and carried out a consultancy project on quality control and quality assurance of ready mixed concrete factory. Senior consultant for Al-Manaseer Ready Mixed Concrete Company, Amman-Jordan.
- Certified Peer reviewer by UNDP and Quality Assurance Agency, QAA on Enhancement of Quality Assurance and Industrial Planning for engineering programs.
- Certified Academic Subject Reviewer by QAA.
- Secretary and Committee Member for The International Earthquake Engineering Conference (TINEE), Dead Sea, Jordan, 21-24 Nov., 2005.
- Member of American Society for Civil Engineers, 1997-present.
- Member of Jordan Association for Engineers, 1993- present.

#### **PUBLICATIONS AND CONFERENCES:**

1. **A.S. Shatnawi**, S.Z. Al-Sadder, M.S. Abdel-Jaber and R. A. Othman, "Method of Characteristics for Dynamic Geometrically Non-Linear Analysis of Beams", International Journal of Advanced Steel Construction, The Hong Kong Institute of Steel Construction, Vol. 6, No. 3, September 2010, pp. 831-852.
2. **Anis Shatnawi**, and Samir Al-Sadder, "*Exact large deflection analysis of non-prismatic cantilever beams of nonlinear bimodulus material subjected to tip moment*". Journal of Reinforced Plastics and Composites, Sage Pub's, Vol. 26 No. 12 (2007) pp. 1253-1268.
3. **Anis Shatnawi**, Samir Al-Sadder, and Mutasim Abdel-Jaber, "*Symmetrical and Anti-Symmetrical Buckling of Long Corroded Cylindrical Shell Subjected To External Pressure*". Jordan Journal of Civil Engineering, Ministry of Edu. & Scientific Research, Jordan Univ. of Sci. & Techn., Univ. of Jordan Press, Vol. 4 No. 2 (2010) pp. 106-118.
4. **Anis S. Shatnawi**, Mu'tasim S. Abdel-Jaber, Ma'en S. Abdel-Jaber, and Khaled Z. Ramadan, "*Effect of Jordanian Steel Blast Furnace Slag on Concrete Hot-Asphalt Mixes*". Jordan Journal of Civil Engineering, Ministry of Edu. & Scientific research, Jordan Univ. of Sci. & Techn., Univ. of Jordan Press, Vol.2, No. 3, (2008) pp197-207.

5. **Anis S. Shatnawi**, Abdel-Qader S. Najmi, Mu'tasim S. Abdel-Jaber, and Iyad M. Ammarin, "*Nonlinear Seismic Response of Base Isolated Frame Structures Using Rubber Bearings*", Jordan Journal of Civil Engineering, Ministry of Edu. & Scientific research, Jordan Univ. of Sci. & Techn., Univ. of Jordan Press, Vol.2 No. 2 (2008) pp.152-171.
6. Samir Al-Sadder, **Anis Shatnawi**, and Mohammad Dado, "*Exact post-buckling configurations of cantilevered column subjected to forces produced by a tensioned cable*". Mechanics Research Comm's, Vol. 34 Issue 4 (2007) pp. 395-404.
7. R.A. Damseh, **A.S. Shatnawi**, A.J. Chamkha, and H.M. Duwairi, "*Transient Mixed Convection Flow of a Second-Grade Visco-Elastic Fluid over a Vertical Surface*". Nonlinear Analysis Modelling and Control, Inst. of Mathematics and Informatics, Vilnius, Lithuania, Vol.13 No.2, (2008) pp.169-179.
8. F.H. Al-Qarud, **A.S. Shatnawi**, M.S. Abdel-Jaber, and R.G. Beal, "*Influence of Partial Loading on the Behaviour of Pallet Rack Structures*". Advanced Steel Construction, an Int. Journal (IJASC), Vol. 6 No.2, June (2010) pp. 619-634.
9. Ma'en Abdel-Jaber, **Anis Shatnawi**, and Mu'tasim Abdel-Jaber, "Guidelines for Shear Strengthening of Beams Using Fiber-Reinforced Polymers (FRP) Plates", Jordanian Journal of Civil Engineering (JJCE), Ministry of Edu. & Scientific Research, Jordan Univ. of Sci. & Techn., Univ. of Jordan Press, Vol.1, No. 4, (2007) pp. 327-335.
10. Samir Z. Al-Sadder, Ra'ad A. Othman, **Anis S. Shatnawi**, "*A simple finite element formulation for large deflection analysis of nonprismatic slender beams*". Structural Engineering and Mechanics, an International Journal, Techno-Press, Vol. 24 No. 6, (2006) pp.647-664.
11. Nasim Shatarat, Samir Al-Sadder, Hasan Katkhda, Husam Qablan, and **Anis Shatnawi**, "*Behavior of a rhombus frame of nonlinear elastic material under large deflection*", Int. Journal of Mechanical Sciences. Pergamon Elsevier, Vol.51 (2009) pp.166-177.
12. Mutasim Abdel-Jaber, Samir Al-Sadder, **Anis Shatnawi**, "Equilibrium Configurations of Heavy Elastica Beams Under Unilateral Contact Constraints", Proc. of the 9<sup>th</sup> Int. Conference on Computational Structures Technology, Greece, 2-5<sup>th</sup> Sep (2008), Civil Comp Press, Scotland, paper 210.
13. Mu'tasim Abdel-Jaber, Robert Beale, Ma'en Abdel-Jaber, and **Anis Shatnawi**, "*Two Dimensional and Three Dimensional Comparison of Second Order Analysis of Pallet Rack Structures with Nonlinear Moment Curvature of Semi-Rigid Connections*". Proc., 5<sup>th</sup> Int. Conference of Thin-Walled Structures, Brisbane-Australia, June (2008).
14. Sweis, G., Sweis, R., **Shatnawi, A.**, and Armouti, N., "*Economic of Incorporating Earthquake Resistant Properties into Residential Building Development in Jordan*". Proc., Taylor and Francis Construction Management and Economics 25<sup>th</sup> Anniversary Conference, Reading, England, (2007), pp 103.
15. Sweis, G., **Shatnawi, A.**, and Armouti, N. S., "*Earthquakes, development and mitigation: The case of Jordan*", Proc., The International Earthquake Engineering Conference, Dead Sea, Jordan, Paper No.7, (2005).

16. Nazzal Armouti, **Anis Shatnawi**, and M. Abdel-Jaber, “*Effect of axial stiffness on stability of frames*”. Proc., 6<sup>th</sup> Int. Conference on Steel and Aluminum Structural Engineering, ICSAS’07, Oxford –Brooks University, UK, (2007).
17. Samir Al-Sadder, **Anis Shatnawi**, and M. Abdel-Jaber, “Buckling of stepped non-uniform ring cylindrical steel shell subjected to external pressure”. 6<sup>th</sup> Int. Conference on Steel and Aluminum Structural Engineering, ICSAS’07, Oxford –Brooks University, UK, (2007).
18. Ahmed Al-Qaisia, **Anis Shatnawi**, and M. Abdel-Jaber, “Non-linear Natural Frequencies of a tapered cantilever beam”. 6<sup>th</sup> Int. Conf. on Steel and Aluminum Structural Engineering, ICSAS’07, Oxford –Brooks University, UK, (2007).
19. Samir Al-Sadder, R. Othman, **Anis Shatnawi**, and M. Abdel-Jaber, “Dynamic behavior of slender steel beams under large deflection by the method of characteristics”. 6<sup>th</sup> Int. Conference on Steel and Aluminum Structural Engineering, ICSAS’07, Oxford –Brooks University, UK, (2007).
20. Samir, A. Barakat, Abdallah, I. Malkawi, and **Anis Shatnawi**, “A step towards evaluation of the seismic reduction factor in multistory reinforced concrete frames”, Natural Hazards, 16(1): July (1997), pp 65-80.
21. Moudar Zgoul and **Anis Shatnawi**, “Crash Simulation of an off-road vehicle”, **Submitted** to Int. Journal of Engineering Science, IJEC, (2008).

#### RESEARCH IN PROCESS:

- ❖ **Anis Shatnawi**, Samir Al-Sadder, Nazzal Armouti, and Mutasim Abdel-Jaber, “Exact Buckling Analysis of Fully Embedded Cracked Piles”.
- ❖ **Anis Shatnawi** and Samir Al-Sadder, “A proposed Design Charts of Free Vibration for Cracked Weekend Beams”.
- ❖ **Anis Shatnawi** and Mutasim Abdel-Jaber, “Punching shear resistance of high-strength concrete slabs”.

#### RESEARCH PROJECTS AND REPORTS:

- ❖ In-situ *bridge life prediction*. Contributions in a project of a *bridge rating* of HEN-108-1561 SR 108 over the Maumee River, Report submitted to Ohio Department of Transportation. Napoleon, Ohio”, 2000.
- ❖ Multimechanism Viscoelastoplastic-Coupled-to-Damage Constitutive Model, report submitted to NASA-Glenn Research Center, Dec. 2001, grant No. NCC3-808-5.
- ❖ A case Study: “Evaluation and strengthening of an existence multistory building for Almajd TV”, Amman 2005.

- ❖ Report submitted to Faculty for Factory Program: “Development of Quality Control/Assurance Program towards Improving Ready Mix Concrete Product”. JORDANIAN READY MIXED CONCRETE COMPANY, ALMANASEER, 2005.
- ❖ Report submitted to Faculty for Factory Program: “Implementation of the new technology of post tensioning concepts for the steel structures”. ALEATELAF METAL WORK CO., 2006.
- ❖ Report, Self Evaluation Document for UNDP project on Enhancement of Quality Assurance and Industrial Planning in Arab Universities based on QAA, 2008.

### **MASTER THESIS SUPERVISION**

- Seismic Response of Multi-Storey R/C Frame Structures Considering the Underground Floors, By: Yousif Abu-Anzah, Dec. 2004.
- Non-Linear Seismic Response of Base-Isolated Frame Structures Using Rubber Bearings, By: Iyad Ammarine, April 2006.
- Effect of Cases of Loading and base-plate Stiffness on The Behaviour of Three-Dimensional Steel Pallet Racks System", By: Feryal Al-Quraud, Jan. 2008.
- Dynamic Soil-Structure-Interaction of Multi Spans Bridge- Case Study in Jordan", By: Waheeba Mousa, Nov. 2008.
- Effect of Vertical Irregularities on the Response of R/C Structures Subjected to a Wide Range of Earthquake Excitations", By: Rabab Al-Louzi, Aug. 2010.

### **SEMINARS, WORKSHOPS, AND PRESENTING PAPERS**

- Training Workshop for Preparing of faculty Members, held by center of Human Resources at Jordan University from 30/4/2006-5/6/2006.
- Participating and presenting a paper in the 9<sup>th</sup> Int. Conference on Computational Structures Technology, Greece, 2-5<sup>th</sup> Sep (2008).
- Participating and presenting a paper in the 6<sup>th</sup> Int. Conference on Steel and Aluminum Structural Engineering, ICSAS'07, (2007).
- Participating in 3 workshops about ABET Accreditation, which where held at Faculty of Engineering and Technology in the University of Jordan in 2006 and 2007.
- Attending residential workshop on Academic Subject Review for Engineering programs, organized by UNDP, Tunisia, 11-14 June, 2007.
- Attending two residential workshops on Academic Subject Review for Engineering programs, organized by UNDP, Sharm El-Shaikh, Egypt, 10-17 Nov., 2007.

- Hosting an external peer reviewer of a higher education program at University of Jordan-Civil Engineering Department, including producing evidence-based Self-Evaluation report, March, 2008.
- Working as a reviewer specialist and team member in the peer review of engineering programs at Helwan University, Egypt, 20-25 Feb., 2008.
- Participating and presenting a paper at civil Engineering Conference organized by Jordan Association for Engineers, 2006.
- Preparing and presenting training session at Jordan Association for Engineers about using Finite Element Method for Structural Analysis.
- Participating and presenting in the seminar entitled Earthquake Resistant Structure held by Ministry of Public works and Housing and higher Council for civil Defense on Oct. 16, 2003, Amman, Jordan.

### EXTERNAL APPOINTMENTS – ACADEMIC

- Referee for many international journals as: Structural Engineering and Mechanics, Acta Mechanica, Thin-Walled Structures, Jordan Journal of Civil Engineering, Yarmouk Researches, Journal of An-Najah National University.
- Referee for many submitted papers for The International Earthquake Engineering Conference, Dead Sea, Jordan, 21-24 Nov., 2005.
- Referee for research reports submitted to the Higher Council for Scientific Research- Jordan, 2009.

### COMPUTER AND SELF SKILLS SUMMARY

- ❖ *Finite Element Modeling/Analysis:* **ABAQUS, SAP 2000, ETABS, SAFE and others.**
- ❖ *Word Processors and Spreadsheets:* MS-Word Microsoft, Excel and Graphics.
- ❖ *Mathematics:* Mathematica, MathCad, and MATHLAB.
- ❖ *Programming Language:* FORTRAN77, C++.
- ❖ PC (Windows XP & Microsoft Windows PRODUCTS).
- ❖ Various UNIX-based servers and workstations.
- ❖ Actively managing committees and team leading.
- ❖ Providing support and guidance to team members.
- ❖ Professionally speaking, reading, and understanding English language.
- ❖ Writing professional and technical reports and providing guidance and recommendations to management and technical offices on different issues.
- ❖ Providing interpretation and translation services when and if required.
- ❖ Monitoring projects with different scales on regular basis and communicate the information to the technical representatives.

### SCHOLARSHIPS

- ❖ Awarded Jordanian Ministry of Education Scholarship as an undergraduate in recognition of academic achievement.
- ❖ Graduate assistantship/ Jordan Univ. of Sci. & Tech.-Jordan.
- ❖ Graduate research scholarship/ The University of Akron, Akron, OH.

## **PROFESSIONAL AFFILIATIONS**

- ❖ Member of American Society of Civil Engineers, 1997-present.
- ❖ Member of Jordanian Engineers Association, 1993- present.
- ❖ Member of Jordan Society for Renewable Energy, 2008-present

**References are available upon request.**