

Ayman A. Abu Hammad/ Associate professor, Construction Economics and Management.

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EDUCATION

April 2004: Ph.D., Construction Engineering and Management, Civil& Environmental Engineering Department. College of Engineering, University of Cincinnati, Cincinnati, OH., USA.

December 2001: Ms., Construction Engineering and Management, Civil& Environmental Engineering Department. College of Engineering, University of Cincinnati, Cincinnati, OH., USA.

June 1997: Ms., Urban Design, Architectural Engineering Department, Faculty of Engineering and Technology, University of Jordan, Jordan.

June 1990: Bs. Architectural Engineering, Architectural Engineering Department, Faculty of Engineering and technology, University of Jordan, Jordan.

PROFESSIONAL EXPERIENCE

September 2012- present: Architectural Engineering Department, College of Engineering; United Arab Emirates University, Al Ain, UAE.

September 2010- September 2012: Dean/ College of Engineering; Zarqa University, Zarqa, Jordan.

1. All deanship responsibilities i.e., curriculum development, accreditation, recruitment, and establishment of undergraduate programs in Electrical, Civil, Mechanical, and Industrial Engineering;
2. Develop community outreach relations with local industries and government institutions within Zarqa region.
3. Maintain accreditation of existing and new programs;
4. Member, Quality Assurance Committee at the university level;
5. Developed approaches for College of Engineering COE activities and operations;
6. Developed CoE strategic plan, all departments' ILO's and learners' objectives.

March 2006- September 2010: Civil Engineering Department, Applied Science University (ASU), Amman, Jordan.

1. Promoted to Associate Professor rank on September, 2010.
2. Certified EFQM Lead Assessor. Assessment of many top class government ministries and institutions in Jordan and United Arab Emirates 2007-2011. Trainer in EFQM model and RADAR.
3. Consultation activity for the Ministry of Presidential Affairs (MOPA), Abu Dhabi. Assessment of 9 sectors and 28 departments and sections. Developed assessment reports and evaluation scores for MOPA based on EFQM criteria. Developed 9 assessment report and scores for MOPA sectors and 28 reports and scores for all MOPA departments. Gap analysis report was developed in addition to a capacity building program for Department of Finance (DOF). Intensive 5-day courses were delivered on the EFQM model and assessment using RADAR. for the following institutions: Ministry of Presidential Affairs, The Department of Finance, Abu Dhabi Retirement and Pensions Fund, and Ajman Free Zone.
4. Evaluator for King Abdallah the Second Award for Excellence in Private, Public, and Distinguished Employee over three cycles: 2007-2010. 2009 Cycle: Lead assessor for the eight Jordanian Organizations e.g., Municipality of Greater Amman, Aqaba Free Zone (ASEZA), Ministry of Treasury, Department of Budget.
5. Established and director of the Applied Science Unit for Industry Relations and Engineering Research (ASU I-REACH) at the College of Engineering, October 2006- December 2009. Organized partnerships

among ASU and each of Royal Scientific Society (RSS) and Municipality of Greater Amman (MGA). Head of committee for accreditation of transferring students credit hours 2007. Head of organizing committee for the College of Engineering (COE) Scientific Day 2007. Organizer of Graduation Projects Posters Competition for the COE 2007 & 2008.

6. **Training Courses: Total Quality Management, 6 Sigma, Primavera Project Planner version 3.1, Project Management, FIDIC Contract Conditions: Red, Green, yellow, and Silver books. Conducted training session to the following government and private agencies: 1) Ministry of Public Works and Housing, 2) Jordan TV, 3) Municipality of Greater Amman, 4) College of Engineering/ University of Jordan.**
7. Passavant- Roedeger- Aqua-treat: Consultant and director of the Quality and Project Management Department.

September 2004- February 2006: Assistant Professor, Civil Engineering Department, Al-Isra Private University (IPU).

January 2003- December 2003: Adjunct faculty, College of Applied Science, University of Cincinnati, Cincinnati, Ohio, USA.

September 1999 – January 2003: Teaching and Research Assistant in Civil and Environmental Engineering, University of Cincinnati, Cincinnati, Ohio, USA.

July 1992-August 1999: General Contractor: self employed business.

June 1990-July 1992: Project engineer and supervisor for multiple projects in Amman.

STATEMENT OF TEACHING INTERESTS

- 1) Management courses: Construction Project Management, Construction Cost Budgeting and Planning, Human Resource Management, Construction Planning and Scheduling, Construction Safety, Strategic Planning, Construction Equipment and Methods, Construction Operations Analysis.
- 2) Business Management: Simulation Modeling, Financial Management, Project Operations Management, Decision Support Systems.
- 3) Economy, Soil Mechanics, Soil Mechanics Lab, Civil Engineering Drawings Using A-CAD, Foundations Engineering, Geology, Theories of Structures, Concrete Design, Risk and Reliability of Civil Engineering Systems, , and Engineering Drawing Using A-CAD.

RESEARCH INTERESTS:

- Operations research, productivity, simulation modeling, decision support systems, statistical modeling, artificial neural networks in all areas in construction.

PEER REVIEWED CONFERENCE PAPERS

1. **Abu Hammad, Ayman;** Hastak, Mark; and Syal, Matt, (2002) “Manufactured Housing Production Process,” Proceedings of the *10th International Symposium: Construction Innovation and Global Competitiveness*, A Joint Symposium of *CIB Working Commission 65 & 55 with TG 23, TG 31, & TG 47*, September 9-13, Cincinnati, Ohio.
2. **Ayman Abu Hammad, O. Senghore, Makarand Hastak, and Matt Syal** (2002) Simulation Model for Manufactured Housing Processes. *Computing in Civil Engineering* (2002): pp. 286-297. doi: 10.1061/40652(2003)24. November 2-3, 2002
3. **Abu Hammad, Ayman,** Alhaj Ali, S, and Hall, E. (2007). Forecasting the Jordanian Stock market Prices Using Artificial Neural Networks. *Proceedings of the ANNIE Conference: Intelligent Engineering Systems through Artificial Neural Networks*. Vol.17: 273-278. St. Louis, USA.
4. **Abu Hammad, Ayman,** Alhaj Ali, S, and Sweis, G. (2008). Modeling the Productivity of Precast Concrete Installation. *Proceedings of the 3rd International Conference on Concrete Future*. 17-19 October, 2008. Yantai, China.

PEER-REVIEWED JOURNALS

1. Senghore, O., Hastak, M., Abdelhamid, T., AbuHammad, A., and Syal, M. (2004). "Production Process for Manufactured Housing." *J. Constr. Eng. Manage.*, 130(5), 708–718.
2. Hammad, A., Hastak, M., and Syal, M. (2004). "Comparative Study of Manufactured Housing Production Systems." *J. Archit. Eng.*, 10(4), 136–142.
3. Abu Hammad, A., Salem, O., Hastak, M., and Syal, M. (2008). "Decision Support System for Manufactured Housing Facility Layout." *J. Archit. Eng.*, 14(2), 36–46.
4. Sweis, G., Sweis, R., and Abu Hammad, A. (2008). Construction Delays: the Case of Jordan. *International Journal of Project Management*. Vol. 26, Issue 6: 665-674. Elsevier Ltd and IPMA.
5. Sweis, G., Sweis, R., and Abu Hammad, A. & H. Randolph Thomas (2008). Factors Affecting Baseline Productivity in Masonry Construction: A Comparative Study in the US, UK and Jordan. *Architectural Science Review*. June 2008 issue. University of Sydney, Australia. pages 146-152
6. Abu Hammad, A., Alhaj Ali, S., Sweis, G. and Bashir, A. (2008). Prediction model for construction cost and duration in Jordan. *Jordan Journal of Civil Engineering*. Vol.2, No.3. Jordan University of Science and Technology (JUST), Irbid, Jordan.
7. Alhaj Ali, S., Abu Hammad, A., Sweis, G. (2009). Productivity Improvement of Pre-cast Concrete Installation. *Jordan Journal of Civil Engineering*. Accepted January 13th, 2009. Jordan University of Science and Technology (JUST), Irbid, Jordan. Volume 3, No. 2, 2009, pp 150-157.
8. Abu Hammad, A., Ali, S., Sweis, G., and Sweis, R. (2010). "Statistical Analysis on the Cost and Duration of Public Building Projects." *J. Manage. Eng.*, 26(2), 105–112.
9. Alhaj Ali, S., Abu Hammad, A., Hastak, M., and Matt Syal (2009). Analysis of a Modular Housing Production System Using Simulation. *Jordan Journal of Mechanical and Industrial Engineering*. The Hashemite University, Zarqa, Jordan. Accepted July 1st, 2009.
10. Souma M. Alhaj Ali, Ayman A. Abu Hammad, Murad S. Samhour, and Ahmed Al-Ghandoor, (2009) "Modeling Stock Market Exchange Prices using Artificial Neural Network: A Study of Amman Stock Exchange", Accepted for publication in the *Jordan Journal of Mechanical and Industrial Engineering*.
11. Sweis R., G. Sweis, Abu Hammad, A., Abu Rumman, M., (2009) Modeling the Variability of Labor Productivity in Masonry Construction. *Jordan Journal of Civil Engineering*. Jordan University of Science and Technology (JUST), Vol. (3), No. (3). Irbid, Jordan.
12. Abu Hammad, O., Abu Hammad, A., Al-Haj Ali, S. (2005). Loading Characteristics of Dental Bridge Supported by Natural Teeth. Part Three: The Development of Artificial Neural Network to Predict Bone Stresses. *Alexandria Dental Journal*, Alexandria, Egypt, Vol. 30, Number 1-4, page: 105-112.
13. Rateb, S., Fallag, M., Bugjati, N., Abu Hammad, A. (2011) "Knowledge Management Processes and their Effect on Achieving Competitive Advantage: A case Study of Jordan Telecom Group " Orange". *Jordanian Journal of Business Administration*". Vol. (7), No (4). Jordan University, Amman, Jordan.
14. Rateb Sweis, Ghaleb Sweis, Ghalia Attar and Ayman Abu Hammad (2011) "The Relationship between Information Technology Adoption and Job Satisfaction in the Jordanian Construction Industry." *International Journal of Information Technology Project Management (IJITPM)*. Volume 2, Issue (2). PAGES 32-52. DOI: 10.4018/jitpm.2011040103, ISSN: 1938-0232, EISSN: 1938-0240.
15. Ala'a Dammaj, Afnan Alawneh, Ayman Abu Hammad, Rateb Sweis (2014) "INVESTIGATING THE RELASHIONSHIP BETWEEN KNOWLEDGE SHARING AND SERVICE QUALITY IN PRIVATE HOSPITALS IN JORDAN". Accepted for publication in the *International Journal of Productivity and Quality Management*. Inderscience Publishers Ltd.

THESIS & DESERTATION

1. Abu Hammad, Ayman, (2004) "**Decision Support System for Manufactured Housing Process Analysis and Facility Design**," Ph.D. dissertation submitted to the Department of Civil and Environmental Engineering, University of Cincinnati, Cincinnati, OH, USA.

2. Abu Hammad, Ayman, (2001) “**Simulation Model for Manufactured Housing Processes in Construction,**” masters thesis submitted to the Department of Civil and Environmental Engineering, University of Cincinnati, Cincinnati, OH, USA.

RESEARCH ACTIVITIES & INDUSTRY OUTREACH

1. EFQM Lead Assessor. Assessment of many top class government ministries and institutions in Jordan and UAE 2007-2009. Trainer in EFQM model and RADAR.
2. Developed partnership agreements with: US-AID/ TATWEER, Municipality of Greater Amman, The Royal Scientific Society, Invitations for Ministry of Public Works & Housing (MPWH) and Jordan Contractors Association (JCA).
3. Reviewer: Journal of Construction Management and Economics, ASCE Journal of Construction Engineering and Management, Elsevier. International Journal of Project Management.

REFERENCES

- Dr. Makarand Hastak: Professor, Division of Construction Engineering & Management, School of Civil Engineering, Purdue University, West Lafayette, IN 47907, USA. Tel. # (765) 494-0641, E-mail: hastak@ecn.purdue.edu
- Ghaleb, J. Sweis: Professor/ Vice President, University of Jordan. Email: gsweis@uj.edu.jo.
- Dr. Matt Syal: Professor and Graduate Program Director, Construction Management, Michigan State University, East Lansing, MI 48824. USA. Tel. # (517) 432-2951. E-Mail: syalm@egr.msu.edu.
- Dr. Ossama Salem: Associate Professor, Civil and Environmental Engineering, University of Cincinnati. Cincinnati, Oh. USA. Email: osalem@uc.edu.