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# Shaher Rababeh, Professor, Hashemite University Former Vice President



►Shaher Rababeh  
Mobile:+962 (0)79 9055312  
P.O. Box 150459, Zerqa, Jordan.  
Fax: +962 (0) 5 3826613  
E-mail: srababeh@yahoo.com  
srababeh@hu.edu.jo

Home Page: <https://hu.edu.jo/Administratives.aspx>

## ABOUT

## ARCHITECT AND PLANNER

*Architectural Heritage and Urban Planning; Construction Technology; Sustainable Development; Architectural Technology and Theory; Design Studio Teaching; Professional Practice; Property and the Construction Industry; Conservation of Historic Buildings.*

## BIOGRAPHY

Shaher Rababeh is a full professor of architecture and construction at the Hashemite University, Jordan. Formerly he was: the founder and the former chair of the Department of Architecture (2005-11), the founder and the director of the Department of Engineering Projects (2007-present), the vice dean of the Faculty of Engineering (2011-12), the dean of the Faculty of Engineering (Feb. 2012- Sep. 2016), the founder and the director of the Energy Center (Oct. 2017-Jan. 2020), and the vice president of the University (Sep. 2016-Nov. 2019). He received his BSc in Architectural Engineering from Yarmouk University, Jordan in 1987. From the University of Oxford, he was awarded his MSt. in Classical Architecture and DPhil in Architectural Construction Techniques and Methods of Design, in 2005. Thereafter, he has been associated with the Faculty of Engineering at the Hashemite University until now. His approach to research and management is founded in his education and the realities of working as a professional architect and consultant in Jordan for 14 years before getting the DPhil, and in the main values common to any organization: respect, team spirit, transparency and creativity. He teaches Architectural History and Theories, Architectural Construction Technology, Architectural Design Studios, Working Drawings, Architectural Professional Practice and Research Methods. His research interests include architectural heritage, construction techniques, conservation, history and theory of architecture, architectural design, architectural professional practice, and building technology. He is the author of "How Petra Was Built". He has published several refereed research papers and book chapters.

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### Personal Profile

Date of Birth: 1st March 1964

Place of Birth: Irbid/ Jordan

Nationality: Jordanian

**General Specialization:** Architectural Engineering

**Precise Specialization:** Architectural Heritage and Conservation; Classical Construction Techniques and Methods of Design.

## ARCHITECT AND PLANNER

Energetic Architect Professor utilizes a very interactive approach to deliver efficient and reliable solutions to critical and complex problems. Over 32 years Professional and academic practice: project management, design, construction, university operations management, research and teaching, and building conservation experience dealing with solving problems and optimizing team potentials; with high workloads and strict deadlines. Extensive experience with project managing multidisciplinary teams covers teaching, architectural design, architectural heritage, building construction, and cultural resources management. Proven track record is in testing to successful implementation within budget, scope, timescales and process limitations. Additional significant expertise has also been gained working within the sustainable design of energy strategy and master planning for a very wide range of projects in Jordan. Recently has been involved, as part of the sustainable development mission, in the field of photovoltaic farm project and water management at the Hashemite University in Jordan.

### AREAS OF EXPERTISE

- Team Leadership.
- General Management.
- Human Resources Management.
- University Operations Management.
- Sustainable Development.

## CORE QUALIFICATIONS

- Cultural Resources Management.
- Construction Management.
- Strategic Planning.
- Smart Campus Planning.
- Dispute Resolution.
- Quality Assurance.
- Architectural Heritage
- Building Construction Techniques and Methods of Design.
- Rock-Cut Architecture.
- Architectural Design and Conservation.
- Urban Planning and Landscape.
- Architectural Professional Practice.
- Museum Architecture.
- Environmental Control.

- Published several articles in notable international journals.
- Create a dynamic culture that inspires creativity, innovation intellectual curiosity and excellence.
- Significant experience as a senior executive in a Higher Education, Transformational Education, Sustainable Development (SD), and Construction Management.
- Lead the visioning process, development, and implementation of strategic plan.
- Motivate faculty, staff, and students to build an intellectually engaged community that will advance knowledge, research, and service.

- As Part of the Campus vision, directing the Solar Energy Project (Shams Al Hashemiah, 5 MW) and Water Desalination at the Hashemite University.
- Familiar with a wide variety of financing and revenue generating techniques.

## EDUCATION

2005      PhD      University of Oxford, UK

DPhil (=Oxford PhD) in Classical Architecture- Architectural Construction Techniques and Methods of Design. Lady Margaret Hall

2002      Master's degree      University of Oxford, UK

Classical Architecture. Lady Margaret Hall

1987      Bachelor's degree Yarmouk University, Jordan

Architectural Engineering and Urban Planning (very Good)

1982      General Secondary Deir Abu Saeed School, Jordan

High Education Certificate, Scientific Branch (Excellent: 91.2)

## CAREER OBJECTIVES

### Research Interests

Shaher Rababeh is the author of "*How Petra was Built: An analysis of the construction techniques of the Nabataean freestanding buildings and rock-cut monuments in Petra, Jordan*", a professor of architecture. His interests include architectural heritage and conservation, architectural history and theory, construction methods and technology, sustainable development, architectural design, Urban Design, and Urban Planning. His work has covered many major monuments in Jordan and Syria, ranging from Petra and Gerasa, Bosra and Damascus, the Desert Palaces, to modern and contemporary built environment.

As a result of his combination of academic qualifications, knowledge, experience and skills, he is making a unique contribution to researching and teaching architecture in Jordan. His experience as a practicing architect has given him firsthand knowledge of using the construction materials naturally available in the area. He has then applied this to his study of classical construction techniques, discovering and demonstrating how the builders worked with these to develop their own construction techniques. He has applied this same

knowledge to study modern Jordanian architecture, and how identity is expressed in both its ancient and modern forms.

Rababeh's focus on buildings involves architectural aspects, such as analyzing how space is used and how this changed with time. His interests are focused on the symbolism of the building and its connection with both the architectural design and the construction techniques used to create spectacular architectural achievements. These include analysis of the structural system employed and the way the building site was organized for large structures. He looks at particular building methods relating to materials and techniques that were developed to allow the builders to construct larger and more complex structures. He then relates these techniques to the socio-economic context in which they occur and explores how these changes occurred over time; from the earliest buildings to the present. His examination of building techniques also demonstrates how the building industry worked, taking into account the availability of the building materials. He has also collaborated with scholars from other disciplines, such as civil engineering, renewable energy and geology, which provide information about the availability of building materials, how this affects earthquake damage to allocate the methods and the tools to apply the sustainable development. .

### **Teaching Philosophy**

Good teaching is always a research work, and good research always a teaching experience. It is no wonder that we often learn more about a subject when we teach it; learning by doing. My approach to teaching is founded in my own education and the realities of working as a designer and as a researcher. I always armed architectural teaching with a strong believer of the multi or interdisciplinary of architectural topics which required me to have a wide base of knowledge.

I have been associated with the Hashemite University for almost fifteen years. During that time, I have established the department of architecture and taught the students from the department, the Faculty of Engineering. I combine an academic background in architectural design and theory, urban design and planning as well as in the fields of building construction engineering with my professional experience, for several years, through my involvement with different projects and industrial start-ups either as a principal, consultant, lecturer, director. I have also been involved with research, teaching and writing in these fields-

Architectural, and Building Construction activity. I have corpus of articles, and they reflect my wide-ranging knowledge of Architectural Heritage Conservation: Classical Construction Techniques and Design Methods. These are greatly useful articles presenting a considerable mass of information, and offer a multi-disciplinary account accompanied by the author's knowledge of architecture. I try to reflect that in teaching.

As a teacher at a university, I have a unique chance to use this multi-disciplinary knowledge and to influence the directions of my undergraduate students at a creative time in their lives. I see my teaching role as a guide to prepare them for what lies beyond their graduation date, be it a career in industry or further education in graduate school. I always want to educate my students about the classroom process and help them become aware of their role in creating and contributing to the learning environment. I enjoy helping students appreciate how the material learned in the classroom can help solve problems, and seeing the excitement that such knowledge generates. They should be more able to analyze and realize uncertain circumstances, and move with relative certainty toward action.

My involvement in establishing and teaching provided an opportunity to put several key elements of my teaching philosophy into practice. These elements include Problem-Based Learning in which students should be assigned authentic learning projects with open-ended descriptions representative of the work they will be likely to encounter after graduation. This helps students sharpen their problem-solving and problem-defining skills and move their knowledge from the classroom to the studio while receiving feedback in a supportive and familiar environment. During design project meetings, we spent a significant amount of time discussing the possible approaches that might be used to solve various design problems. In summary, students as they enter the workforce, they feel confident that their education has prepared them to make a meaningful contribution to their companies. This is the best measure of the effectiveness of my teaching methods lies in the lifelong impact that I have had on my students.

### **Management Philosophy**

My management philosophy is that a manager must focus primarily on strategy implementation. I think successful strategy should stick to the vision, mission and main values common to any organization: respect,

team spirit, transparency and creativity. My approach to a successful management was created from over thirty-two years' experience. It is based on variety of key skills or the best work philosophies.

Teamwork and problems solving must come out from loving to work with others, and recognizing the advantage of working in a team. It is important to possess a keen understanding of how to create strong governance structures and accountable leadership teams by treating the team with respect and honesty. I should have a goal for my team members to be successful in their careers and their lives. Their success is my success. I perceived the benefit of accessing more ideas, working in harmony and helping each other for achieving mutual goals. If any problems arise, an employee with an effective work philosophy tries to analyze them actively and deals with it. This healthy philosophy towards work requires direct and effective communication with others, including even asking people for advice on how you could do your job in the best possible way given the situation.

Motivation is the commitment, dedication and loyalty towards work; commitment will bring in dedication, hard work and best results. This will lead the creative use of resources, and to be resourceful; making the best use of own resource and external resources to get the results I want. The "do your best" philosophy; "100% Effort" by implementing my best skills, experience and effort for the optimal productivity is the most important. Although I believe in luck, I find the harder I work the more I have of it.

Creativity needs initiation, creative planning, active listening and critical thinking approach. Intuition and imagination brings creativity and the ability to explore new thinking. Learn from mistakes and accepting them to improve next time philosophy is the success way. An error does not become a mistake until I refuse to correct it.

To summarize, my management philosophy is a balanced approach to getting things done through working as a team and motivating the members. At the end, the quality of the output is what should be assessed.

## EXPERIENCE

**-Professor of architecture- Faculty of Engineering, HU.**

**-Vice President of the Hashemite University, Jordan.**

**- University Engineering Projects Director (Establisher).**

**- University Renewable Energy Center Director (Establisher).**

*27<sup>th</sup> Nov. 2019- Present Professor of architecture-*

*Faculty of Engineering*

*The Hashemite University, Jordan.*

*4<sup>th</sup> Sep. 2016 – 27<sup>th</sup> Nov. 2019*

*The Hashemite University, Jordan.*

### **Responsibilities:** (Management and Academic tasks)

Report directly to the President.

Provide leadership in and work closely with the President in performing long-term financial planning and analysis.

Provide information, analysis and reports required and requested by the Board of Trustees and Council of Deans.

Chair of the University Personnel Affairs Committee.

Chair of the Central Tendering Committee.

Member of the University Appointment and Promotion Committee.

Member of the University Deans Council.

Member of the Department Council.

Supervision of a team of 1200 staff (all the services departments of the University).

Revising curriculums, strategic plan, and annual budget, staff selection, sponsoring students, and chairing different faculty committees.

Ensure all operations undertaken in a safe manner in accordance with the rules and regulations.

Review project program and update it on a regular basis.

Evaluate bids in accordance with the specifications.

The director of the Solar Energy Project (Shams Al Hashemiah) at the Hashemite University (5 MW).

Following the cleaning maintenance operations, and the productivity of the Solar Project and the Water Desalination.

The director of the Structural Lab. Project at the Hashemite University (building construction and equipment).

The director of the Desalination Project at the University.

Management of project team functions. Overall management of projects from conception to completion.

Presentation of management reports at board level.

Follow-up research completed improved budgets, increased profits and improved morale.



Supervision of six academic faculties (Engineering, IT, Natural Resources and Environments, Childhood, Economics and Administrative Sciences, and Faculty of Arid Lands).

Supervising the Deanship of Academic Development, Quality and Excellence in the University.

Demonstrate and proceeding the American Institutional Accreditation Systems for the Faculty of Engineering and IT (ABET and NAAB).

Establishing master programs in in the faculties supervised, and following.

**Taught and supervised** the following courses:

-Graduation Project I, II,

-Research Methodology,

-Supervise three thesis for Master Students.

**Achievements (up to this date):**

All the seven programs of the Faculty of Engineering are accredited by ABET, and one Program in the Faculty of IT will be accredited next Nov. 2020. Architecture program will be certified by NAAB after the second visit in Nov. 2020.

Facilitating the new graduate program in the faculty of Engineering; Master of Architecture.

His Majesty King Abdullah II bestowed the Order of Al Istiqlal (Independence) of the First Degree on the University for nurturing Solar Project (Shams Al Hashemiah), 2016 as part of campus Sustainable Development.

Emirates Energy Award for the outstanding accomplishment of the Solar Project (Shams Al Hashemiah) at the University, 2017.

The completion of the Desalination station at HU (82 cubic meter per hour).

**-Dean, Faculty of Engineering.**

**-University Engineering Projects Director (Establisher)**

*Feb. 2012 – Sep. 2016 The Hashemite University, Jordan.*

**Responsibilities: (Management and Academic tasks)**

As the dean of the Faculty of Engineering, reporting was to the vice president for the Academic Affairs.

As the director of the Department of Engineering Projects, reporting was to the president directly.

Member of the University Appointment and Promotion Committee.

Member of the University Deans Council.

Supervision of eight academic departments (Civil, Bio-Medical, Electrical, Computer, Industrial, Mechanical, Mechatronics, and Architecture) in addition to the Engineering Basic Sciences Department, Engineering Workshops and the Department of the University Engineering Projects including the different teams of staff.

Suggesting new graduate program in the faculty; Master of Architecture.

Suggesting new graduate program in the faculty; Master of Renewable Energy.

Suggesting the new undergraduate program in the faculty; Bachelor of Building Systems and Technology (= Architectural Engineering).

Supervision of a team of 350 staff and 5500 students.

Revising curriculums, strategic plan, and annual budget, staff selection, sponsoring students, and chairing different faculty committees (chair of the Faculty Council).

Ensure all operations undertaken in a safe manner in accordance with the rules and regulations.

Review project program and update it on a regular basis.

Design the two lecture-hall complexes at the Hashemite University (Area for both is 34500 square meter). Director of the construction of the two projects.

Design the Arab Mining Institute in Amman, Jordan (Area is 19900 square meter).

Design the Faculty of Pharmacology at the Hashemite University (Area is 20860 square meter).

The director of the Solar Energy Project at the Hashemite University (5 MW).

The director of the Structural Lab Project at the Hashemite University.

The director of the Desalination project in the University.

Management of project team functions. Overall management of projects from conception to completion.

Evaluation of training programs for staff and implementation of new training solutions that met the needs of the institution and its people.

Follow-up research completed improved budgets, increased profits and improved morale.

Make recommendations to the President and the Vice President for Academic Affairs on issues related to faculty promotion, tenure, and initial appointments; to review recommendations for faculty promotion; to review recommendations for faculty appointments for tenure; and to review recommendations of candidates for initial appointments at the levels of Instructors, Assistant, Associate Professor and Professor.

**Taught the following courses:**

-History and Theories of Architecture I, and II.

-Islamic Architecture.

-Architectural Designs I, and II.

-Ancient Architectural Construction Techniques.

-Technology of Desert Architecture.

-Building Construction I, II and III.

-Urban Planning,

-Graduation Project I, II.

## **Achievements:**

Facilitating the new graduate program in the faculty; Master of Renewable Energy.

Preparing the requirements of the new undergraduate program in the faculty; Bachelor of Building Systems and Technology (= Architectural Engineering).

Suggesting the Solar Energy Project at the Hashemite University (5 MW) will save 7,500,000 \$ annually.

Suggesting the Desalination Project at the Hashemite University (650 cubic meter/day) will save 750,000 \$ annually.

Suggesting the two lecture-hall complexes at the Hashemite University (Area for both is 34,500 square meter) will enhance the quality of education environment and increase the number of admissions of undergraduate students by 7,000. This will increase the annual budget by 22,500,000 \$.

Formulating and devising strategic plans and budgeting.

Getting in the resources about university appointments and promotions.

Problem solving and people management abilities developed.

Overall management of projects from conception to completion developed.

**-Vice Dean, Faculty of Engineering.**

**-Unit Director (Establisher), Engineering Unit Affairs.**

**-Member of the Department of Architecture, Faculty of Engineering.**

*Sep. 2011 – Feb. 2012*

*The Hashemite University, Jordan.*

### **Responsibilities: (Management and Academic tasks)**

As the vice dean, reporting was to the Dean of the Faculty.

As the director of the Engineering Unit Affairs, reporting was to the president directly.

Revising curricula, strategic plan, and annual budget, staff selection, and chairing different faculty committees.

Establishing the Engineering Unit Affairs, preparing strategic plan, and annual budget, staff selection, launching the Unit departments: Department of Engineering Maintenance, Department of Engineering workshops, and Department of Engineering Projects.

Ensure all operations undertaken in a safe manner in accordance with the regulations.

Management of project team functions and supervision of a team of staff.

Review project program and update it on a regular basis.

Evaluation of training programs for staff and implementation of new training solutions that meet the needs of the institution and its people.

Follow-up research completed improved budgets, increased profits and improved

morale.

**Taught the following courses:**

- History and Theories of Architecture I,
- Islamic Architecture,
- Architectural Designs I, II and VI.
- Urban Planning,
- Building Construction I, II and III,
- Working Drawings.
- Graduation Project I, II.

**Achievements:**

Suggestion of new Engineering Unit Affairs saved about 1,000,000 JD annually.  
Formulating and devising strategic plans and budgeting.  
Problem solving abilities developed.

**-Departmental Head (Establisher), Department of Architectural Engineering, Faculty of Engineering.**

**-Departmental Head (Establisher), Department of Engineering Projects.**

**-Member of the Queen Rania Institute for Tourism and Heritage.**

*Aug. 2006-Aug. 2011 The Hashemite University, Jordan.*

**Responsibilities:**

As the chair of the Architectural Department, reporting was to the Dean of the Faculty.

As the director of the Department of Engineering Projects, reporting was to the president directly.

Establishing the two departments, preparing curriculum, strategic plan, and annual budget, staff selection, launching the program.

Ensure all operations undertaken in a safe manner in accordance with the regulations.

Management of project team functions.

Appoint, sponsor and supervise of department staff.

Review program curriculum and update it on a regular basis.

Evaluation of training programs for staff and implementation of new training solutions that meet the needs of the institution and its people.

Presentation of management reports at board level.

Follow-up research completed improved budgets, increased profits and improved morale.

**Taught the following courses:**

- History and Theories of Architecture I,
- History and Theories of Architecture II,
- Islamic Architecture,
- Historic Sites Management,
- Stability Evaluation of Historic Buildings I,
- Basic Design I and II,
- Architectural Designs I, II, III, IV, V and VI,
- Urban Planning
- Communication I,
- Free-hand Drawing,
- Building Construction I, II and III,
- Working Drawings.

**Achievements:**

Suggestion of new department for engineering projects saved about 500.000 JD annually.

Suggestion of new department for teaching architecture brought in 2.500.000 \$ annual income.

Formulating and devising strategic plans, program curriculum and budgeting.

Problem solving abilities developed.

**-Assistant Professor in the Department of Conservation, Queen Rania Institute of Tourism and Heritage**

*Aug. 2005-Aug. 2006 The Hashemite University, Jordan.*

**Responsibilities:**

Member of the Faculty Council.

**Teaching the following courses:**

- Introduction to Archaeology

- Museology Science,
- Stability History of Architecture I, II
- Evaluation of Historic Buildings,
- Building Conservation,
- Islamic Art and Architecture,
- Cultural Resources Management (CRM).

**Achievements:**

Realizing the merit of the international Texts of the Convention concerned with the management of natural and cultural heritage sites (Text of the UNESCO Convention of 1970, Text of the UNIDROIT Convention of 1995, Text of the World Heritage Convention of 1972, Text of the ICOMOS Charter of 1990).

Fitting into a team immediately and picking up information quickly.

**-Teaching Assistant in Department of Architecture**

*Oct. 1995 – Dec. 1996:*

*Jordan University of Science and Technology (JUST), Jordan.*

**Responsibilities:**

Associating in teaching the following courses:

- Communication 1.
- Islamic Art and Architecture.
- Construction 1.
- Construction 2.
- Working Drawings 1.
- Working Drawings 2.
- Design 4, Design 6.
- Urban Planning.
- Graduation Project.

**Achievements:**

How to fit into a team immediately and picked up information quickly.

#### - Field Director

*2001 – 2005 Petra, Jordan*

##### **Responsibilities:**

Collecting data related to the structural and technical features of the rock-cut and freestanding monuments.

Preparing detailed drawings.

Data analysis and interpretation.

##### **Achievements:**

Finishing doctoral thesis entitled "An Analysis of the Construction Techniques of the Nabataean Freestanding Buildings and Rock-cut Monuments in Petra, Jordan".

Thesis published as a book entitled *How Petra was Built* (Oxford 2005).

Demonstrated the structural and architectural values of the Petra monuments and made conservation and restoration recommendations.

Research methods developed.

Interaction with the local communities of Wadi Musa and Umm Sayhoon.

#### - Commercial Architect (Owner and Director)

*1987 – 2000*

*Al-Madineh Engineering Office*

*Al – Huson St, Irbid, Jordan.*

##### **Responsibilities:**

Management of project team functions.

Development of subcontracts, tender packages, specifications, and schedules.

Supervision and co-ordination of multiple contractors.

Supervision of a team of 150 staff.

Control and direction of a multi-disciplinary, multi-national work force.

Preparation of weekly and monthly reports to client.

Compliance with corporate, health and safety management systems.

##### **Achievements:**

Overall management of projects from conception to completion developed.

## - Building arbitrator in the Government Courts

1992 – 2000 Jordan.

### **Responsibilities:**

Preparing reports to the court.

### **Achievements:**

Dispute resolution experience.

## SKILLS

### **Skills:**

#### **Soft Skills:**

- Communication
- Teamwork and Leadership
- Problem-solving
- Organization
- Time management
- Motivation
- Adaptability
- Critical thinking

#### **Hard Skills**

- Research and Data analysis
- Updated curriculum knowledge
- Project Management
- Computer
  - Cloud networking and file sharing
  - E-learning: Educational platforms (Blackboard, Moodle, Zoom Cloud...)
  - Microsoft office pack: Word, Excel, Power point, and Access
  - Auto Cad 12,13; Adobe Photoshop.
- Surveying
  - E.D.M Set; Theodolite Set; Total Station; Level Set.
- Languages
  - Arabic (Mother tongue)
  - English (Fluent reading; speaking, writing, and listening)
  - German (reading) and French (reading).

## CONFERENCES AND WORKSHOPS

**2016** Participate in The Third Annual Construction History Society Conference, At Queens' College, University of Cambridge. "Stone Architecture: Stone Dressing in Petra, Jordan", Published in



Further Studies in the History of Construction: 87-99.

**2015** Participate in the Forth General Meeting of the project 543948-TEMPUS-1-2013-1-ES-TEMPUS-JPCR, the University of Malta, Valletta (Malta), "Tuning Middle East and North African".

**2014** Participate in the Third General Meeting of the project 543948-TEMPUS-1-2013-1-ES-TEMPUS-JPCR, the Hashemite University, Amman (Jordan), "Tuning Middle East and North African".

**2013** Participated in the EDIBON Technical Teaching Units in the Renewable Energy Workshop, in Madrid, Spain. Paper presented: "The Solar Energy Project at The Hashemite University".

**2011** Participated in the Fifth International Congress, the Cultural Heritage in Istanbul, Turkey. Paper presented: "Utilization of tie-beams for strengthening stone masonry arches in Nabataean construction".

**2010** Participated in Eleventh Conference of History and Archaeology of Jordan, in Paris, France. Paper presented: "Nabataean Architectural Identity and its Impact on Contemporary Architecture in Jordan".

**2008** Participated in Jordanian Darat Conference, held in Amman, Jordan. Paper presented: "Earth Construction Techniques and Suggested Conservation Plans".

**2008** Paper presented at ARAM conference on the Decapolis, held in University of Oxford, UK: "The temples of Zeus and Artemis and their relation to the urban context of Gerasa".

**2007** Participated in "Petra Park Management Plan, Policy and Planning", at Yarmouk University, Irbid, Jordan.

**2007** Participated in Tenth Conference of History and Archaeology of Jordan, in Washington DC, USA. Paper presented: "Quarries and Quarrying in Petra".

**2006** Participated in the first Conference of Nabataean Civilisation, at al-Hussein Bin Talal University in Ma'an, Jordan. Paper

presented: "What Determined the Choice of the Building Techniques in Petra, Jordan?".

**2005** Participated in the National Conference of Petra Researches and Its Conservation, held in al- Hussein University, Jordan. Paper presented: "How Petra and Medain Saleh were Built".

**2005** Participated in Fourth Conference of Conservation Sciences, Hashemite University, Jordan. Paper presented: "Quarries and Quarrying in Petra".

**1995** Participated in Sixth conference of History and Archaeology of Jordan, in Torino, Italy. Paper presented: "Landscape Features: their effect on human settlement in Wadies-Shallalah and Wadi Rahoub in North Jordan".

**1991** Associated membership in " Inter - Religious Leadership Seminar: True Cooperation for World Peace", in New York, USA.

## PUBLICATIONS

### **PUBLISHED BOOK:**

**2005** Rababeh, S. HOW PETRA WAS BUILT: An Analysis of the Construction Techniques of the Nabataean Freestanding Buildings and Rock-cut Monuments in Petra, Jordan. (Oxford) ISBN: 1-84171-898-x.

### **ARTICLES:**

**2008** Abdelaziz, M. and Rababeh, S. "The Terminology Used to Describe Tombs in the Nabataean Inscriptions and its Architectural Context". Levant, Vol. 40.No.2.Pp: 177-183.

**2008** Rababeh, S. "The Structural and Architectural Values of Petra Monuments". Al- Yarmouk University Journal, no. 94.

**2010** El-Mashaleh, M.; Al-Smadi, B; Hyari, K; Rababeh, S. "Safety in the Jordanian Construction Industry". Jordan Journal of Civil Engineering, Vol.4, No.1.Pp:47-54.

**2010** El-Mashaleh; Rababeh, S.; Hyari, K. "Utilizing data envelopment analysis to benchmark safety performance of construction contractors". International Journal of Project

Management, Vol.28, Issue.1.Pp: 61-67.

**2010** Rababeh, S.; Mashaleh, M.; Malaabeh, A.; "Factors Determining the Choice of the Construction Techniques in Petra, Jordan". *International Journal of Architectural Heritage and Conservation*, Vol. 5, Issue 1, Pp: 60-83.

**2010** Rababeh, S. "Nabataean Architectural Identity and its Impact on Contemporary Architecture in Jordan", *Dirasat, Engineering Sciences*, Vol. 37, No.1, Pp: 27-53.

**2010** Rababeh, S. "Construction Techniques of the Great Temple: How the Great Temple was Built". In *the Great Temple*, Vol. III. Edited by Martha Joukowsky. Providence, RI: Brown University, Petra Exploration Fund.

**2011** Rababeh, S. "The Temples of Zeus and Artemis and Their Relation to the Urban Context of Gerasa", *ARAM* 23, 177-189, doi 102143/ARAM.23.0.2959656.

**2012** Abu Khafajeh, S. and Rababeh, S. "The Silence of Meanings in Conventional Approaches to Cultural Heritage in Jordan: The Exclusion of Contexts and the Marginalisation of the Intangible", in *Safeguarding Intangible Cultural Heritage*, Edited by M. Stefano et al. Pp. 71-83.

**2013** Hammad, B.; Rababeh, S.; Al-Abed, M.; Al-Ghandoor, A. "Performance Study of On-Grid Thin-Film Photovoltaic Solar Station as a Pilot Project for Architectural Use ", in *Jordan Journal of Mechanical and Industrial Engineering*, Vol. 7, Issue 1, Pp: 1-9.

**2013** Rababeh, S.; Al Qablan, H.; El-Mashaleh, M. "Utilization of tie-beams for strengthening stone masonry arches in Nabataean construction ", in *Journal of Architectural Conservation* 19 (2):118-130. DOI: 10.1080/13556207.2013.819656.

**2014** Rababeh, S.; Al Qablan, H.; Abu-Khafajah, S.; El-Mashaleh, M. "Structural Utilisation of Wooden Beams as Anti-Seismic and Stabilising Techniques in Stone Masonry in Qasr el-Bint, Petra, Jordan", in *Construction and Building Materials* 54(c): 60-69. DOI:10.1016/j.conbuildmat.2013.12.018

**2014** Rababeh, S.; Al Rabady, R. "The Crowsteps Motif in

Nabataean Architecture: Insights into its Meaning and Use", in Arabian Archaeology and Epigraphy Vol. 25, Issue 1, Pp: 22-36. DOI:10.1111/aae.12039

**2014** Al Rabady, R.; Rababeh, S. ; Abu-Khafajah, S. "Urban Heritage Governance within the Context of Emerging Decentralization Discourses in Jordan ", in Habitat International 42: 253-263. DOI:<http://dx.doi.org/10.1016/j.habitatint.2014.01.002>

**2014** Abu-Khafajah, S.; Al Rabady, R.; Rababeh, S. " Urban heritage 'space' under neoliberal development: a tale of a Jordanian plaza", in International Journal of Heritage Studies, published online: 11 August 2014. <http://dx.doi.org/10.1080/13527258.2014.945615>

**2014** Rababeh, S.; Al-Rabady, R.; Abu-Khafajah, S. "Colonnaded Streets within the Roman Cityscape: A 'Spatial' Perspective", in Journal of Architecture and Urbanism, published online 23 Dec. **2014**: 293-305. Permanent link and DOI is: <http://dx.doi.org/10.3846/20297955.2014.992168>, Permanent link.

**2015** Rababeh, S. "Technical Utilization of Lifting Devices For Construction Purposes in Ancient Gerasa, Jordan ", in International Journal of Architectural Heritage: Conservation, Analysis, and Restoration, 9:8,1023-1036, DOI: 10.1080/15583058.2014.910283.

**2015** Hyari, K; El-Mashaleh, M.; Rababeh, S. "Framework for Managing the Traffic Impacts of Building Construction Projects", in Journal of Construction of Developing Countries, Volume 20, No. 2, 2015.

**2015** El-Mashaleh, M.; Hayari, K., Bdour, A.; Rababeh, S. "A Multi-Attribute Decision-Making Model for Construction Enterprise Resource Planning System Selection", in International Journal of Construction Education and Research 03/2015; DOI:10.1080/15578771.2015.1015755.

**2015** Abu-Khafajah, Sh; Al Rabady, R.; Rababeh, S; Al-Tammoni, F. "Hands-On Heritage! Establishing Soft Authority over Heritage through Architectural Experiment: A Case Study from Jordan, Public Archaeology, 14:3, 191-213, DOI:

10.1080/14655187.2016.1191924

<http://dx.doi.org/10.1080/14655187.2016.1191924>

**2016** Abu-Mahfouz, I ; Al-Malabeh, A ; Rababeh, S. "Geo-engineering evaluation of Harrat Irbid Basaltic Rocks, Irbid District—North Jordan". *Arabian Journal of Geosciences*, 9(5):1-11. DOI: 10.1007/s12517-016-2428-4

**2016** Rababeh, S.; Al Rabady, R. "Stone Architecture: Stone Dressing in Petra, Jordan", in *Further Studies in the History of Construction: 87-99*. The Third Annual Construction History Society Conference, At Queens' College, University of Cambridge.

**2018** Al Qablan, H.; Rababeh, S.; Katkhuda, H.; Al-Qablan, T. "On the use of wooden beams as an anti-seismic device in stone masonry in Qasr el-Bint, Petra, Jordan". *Journal of Building Engineering*, 21(2019): 82-96. DOI: 10.1016/j.job.2018.10.002

## FUTURE PUBLICATIONS

- **Rababeh, S.** Sustainable Development Applications in the Hashemite University as Arid Land Campus: Methods and Tools

- **Rababeh, S.;** Abu-Khafajah, S. Muqarnas as a construction and aesthetic architectural element: revival of cultural heritage in contemporary architecture.

- Al Rabady, R.; **Rababeh, S.;** Dwairi, D. Early Stone Dome on Pendentives in Roman Provinces, Jordan

- Awawdeh, **S.;** **Rababeh, S.;** Al Rabady, R. Analysis of micro-climate and human thermal comfort in open spaces in a hot arid region: case study of Hashemite University.

- Al Rabady, R.; Abu-Khafajah, S.; **Rababeh, S.** Documentation of Architectural heritage of the Citadel and its surrounding (the final title to be decided later)

- **Rababeh, S.** Islamic Architectural Identity and its Impact on Contemporary Architecture in Jordan: The case of the Desert Palaces.

- Al Rabady, R.; **Rababeh, S.** Conjecturing roofing engineering for the sacred apse in ecclesiastical architecture at Umm el Jimal,

Jordan.

-**Rababeh, S.** Construction Management Rules Used in Carving the Treasury of Petra.

-**Rababeh, S.** Umm el-Jimal: Properties of Building Materials and their Effect on Construction Techniques.

-**Rababeh, S.** "El-Nabi Hood Village: Ethnoarchaeological Study ", Unpublished (55Pages).

-**Rababeh, S.** "Libraries Design, Architectural Study ". Unpublished research (BSc. thesis, 180 pages). (Graduation Project).

#### CHAIRING INTERNATIONAL CONFERENCES

Chair of The International Conference on Energy, Water & Environment (ICEWE2013): The ICEWE 2013 was organized by the Faculty of Engineering at the Hashemite University, Jordan in collaboration with the International Association for Sharing Knowledge and Sustainability (IASKS), Canada and Acadia University, Canada. ICEWE2013 was held at the Hashemite University, Zarqa, Jordan, during 21-24 April 2013.

#### INVITED PROFESSIONAL PRESENTATION AND WORKSHOPS

Nov **2013** Municipality of Amman city: Workshop about the urban heritage development project of Amman city.

July **2012** Deir Abu Saeed Cultural Centre, Jordan: Meaning and Use of Architectural Heritage in Jordan.

May **2010** Yarmouk University, Jordan: The structural and architectural values in Petra, Jordan.

May **2008** Wadi Musa, Petra, Jordan: The Nabataean Construction Techniques in Petra, Jordan.

#### SELECTED SUPERVISED GRADUATION PROJECTS

Spring **2020** Center for Renewable Energy, Water and Environment at the Hashemite University.

Spring **2018** Sport City at the Hashemite University.

Spring **2017** Faculty of Economics and Business Management at the Hashemite University.

Spring **2016** Autism Center in Amman.

Spring **2015** School of Medicine, Al-Hussein University, Jordan.

Spring **2015** Arid Lands Academy, the Hashemite University, Jordan.

Spring **2014** Cultural Centre in Rainbow street, Amman, Jordan.

Spring **2014** Faculty of Pharmacology, the Hashemite University, Zerqa, Jordan

Spring **2014** National Research Centre, the Hashemite University, Zerqa, Jordan

Spring **2014** Technical College, the Hashemite University, Zerqa, Jordan.

Spring **2013** Cultural and Heritage Centre in Gerasa, Jordan.

Spring **2013** Rehabilitation Centre for Drug Addict, Amman, Jordan.

Spring **2013** Botanic garden and research center in Um Qais village, Jordan.

Spring **2013** Agriculture College, Hashemite University, Jordan.

Spring **2013** Museum for Islamic Art and Culture, An Ghazal, Amman, Jordan.

Spring **2013** Amman Library, the Citadel mountain, Amman, Jordan.

Spring **2013** Athletics and amateur sport center, Al Queismeh, Amman. Spring **2012** Faculty of Architecture and Building Technology, the Hashemite University, Zarqa, Jordan.

Spring **2012** Aviation Center in Mafraq city, Jordan.

Spring **2011** From trash to treasure: Glass recycle factory, Irbid, Jordan. Spring **2011** School of Architecture and Sculpture at Petra, Jordan.

**MSc THESES  
EXAMINED**

Jalboosh, F. (2009) "The Architecture of the Umayyad Settlement around Qasr Al-Hallabat, Jordan" (The Hashemite University).

Al-Khoury, L. (2009) "The Roman and Byzantine Architecture of the Yasileh Tombs: A Comparative Study" (Yarmouk University).

Ameen, M. (2008) "Archaeo and Eco-tourism for Qaser Aseikhem and Surrounding Area in Badia Jordanian: A Field Study." (The Hashemite University).

Al-Hosban, S. (2007) "Assessment of Residential Subdivision Practice in Jordan on the Light of Conceptual Sustainable Neighborhood Layout."(Jordan University for Science and Technology).

Dagamseh, K. (2007) "Geotechnical Evaluation of Umm Qays basalts for ConstuctionPorpuses"(The Hashemite University).

Frehat, M. (2006) "Environmental and Geological Evaluation of Newly Discovered al-Hamideyia Lava Tunnel, Ne-Jordan; and their Conservation Possibilities as a Potential Geoptop." (The Hashemite University).

Al-Amoush, H. (2006) "Mineralogical and Geotechnical Evaluation of Limestone in Wadi Al-Ghadaf, Jordan."(The Hashemite University).

**MSc THESES  
SUPERVISED**

Esra' Namroti. Building Information Modeling: Application on Architectural Heritage.

Nadine Al-Bqour. Assessment for the Role of the Architectural Design in Enhancing the Hospital`s Healing Environment at Jordanian Military Hospitals.

Edwan, R. Geotechnical Evaluation Physical and Mechanical Properties of Limestone Rocks in Wadi Al-Ish and Ras Al-Ayn, Amman.

Abu Mu'lla, F. Engineering Evaluation of Lower Cretaceous Sandstone in Jordan for possible construction applications.

Abu-Mahfouz, I. Petrogenesis of Irbid District Basalt Rocks (Al-



REVIEWER OF  
NATIONAL AND  
INTERNATIONAL  
JOURNALS

Tura- Beit Ras), Northern Jordan and their Engineering Evaluation as Building and Construction Materials.

**CBM:** Construction and Building Materials, Elsevier.

**BAE:** Building and Environment, Elsevier.

**DIRASAT:** Deanship of Scientific Research, Jordan University.

**IJAH:** International Journal of Architectural Heritage.

PROFESSIONAL  
MEMBERSHIPS

**2011** Honorary Fellowship, Council for British Research in the Levant, Jordan.

**2004** Council for British Research in the Levant, London.

**2002** Ancient Architecture Group, Oxford University.

**2002** Oxford University Alumni Club.

**1988** Alumni Club of Yarmouk University.

**1987** Engineering Association in Jordan.

AWARDS AND  
FELLOWSHIPS

**2004-2005** Grants from the Hashemite University, University of Oxford, Joukowsky Foundation at Brown University, Karim Rida Foundation, during the DPhil at Oxford University.

**2003-2004** Grants from the Hashemite University, University of Oxford, and Karim Rida Foundation, during the DPhil at Oxford University.

**2002-2003** Grants from the Hashemite University and Karim Rida Foundation, during the DPhil at Oxford University.

**2001-2002** Grants from the Hashemite University and Karim Rida Foundation, during the MSt at Oxford University.

**1987-1990** Grants from Yarmouk University, during MSc study.

**1982-1987** Secondments from the Jordanian Government, during BSc study.

## REFERENCES

**Prof. Zeidan Kafafi**

President of Yarmouk University, Jordan

Tel: 00962795650102

Email: [zeidan.kafafi@gmail.com](mailto:zeidan.kafafi@gmail.com)

**Prof. Vistasp Karbhari**

President of the University of Texas at Arlington, USA

Tel: 817-272-2101

Email: [vkarbhari@uta.edu](mailto:vkarbhari@uta.edu)

**Prof. Krishnaswami "Hari" Srihari,**

Executive Vice Provost for International Initiatives and Chief Global Affairs Officer, Dean of the Thomas J. Watson School of Engineering and Applied Science, Binghamton University, USA

Tel: 607-777-2871

Email: [srihari@binghamton.edu](mailto:srihari@binghamton.edu)

**Prof. Osama Abudayyeh**

the Chair of the Civil and Construction Engineering Department at the University of Western Michigan

Tel: 269-276-3210

Email: [osama.abudayyeh@wmich.edu](mailto:osama.abudayyeh@wmich.edu)

**Prof. Ali Abolmaali**

the Chair of the Civil Engineering Department at the University of Texas at Arlington (UTA), USA

Tel: 682-554-2388

Email: [ABOLMAALI@uta.edu](mailto:ABOLMAALI@uta.edu)

**Pro. Kamal el-Din Bani Hani**

Former President of the Hashemite University, Jordan

Tel: 00962797900105

Email: [k\\_banihani@hu.edu.jo](mailto:k_banihani@hu.edu.jo), [banihani60@yahoo.com](mailto:banihani60@yahoo.com)

**Prof. Erian Armanios**

Chair of Mechanical and Aerospace Engineering at the University of Texas at Arlington, USA

Tel: 817-272-2062

Email: [armanios@uta.edu](mailto:armanios@uta.edu)

**Prof. Mohammad T. Khasawneh**

Department Chair; Graduate Director; Professor; Associate Director, Systems Science and Industrial Engineering; Watson Institute for Systems Excellence (WISE), Binghamton University, USA

Tel: 607-777-4408

Email: [mkhasawn@binghamton.edu](mailto:mkhasawn@binghamton.edu)

**COMMITTEES /  
MEETING  
SCHEDULE**

**Academic Committees/Meeting schedule**

Start	Finish	Committee Name/Tasks	Position
29-Sep-15	Present	Modification of "the Regulation for Awarding the BSc Degree in Architecture Engineering "at the Hashemite University.	Member
20-Sep-15	27-Nov-2019	Appointment and Promotion Committee.	Member
8-Sep-15	1-Sep. 2016	Dean of Engineering.	Dean
5-May-15	Present	University World Academic Ranking Committee.	Member
23-Apr-15	Present	Study of Suggestions Presented by Royal Jordanian, Geographic Center.	Member
23-Apr-15	Present	ABET and NAAB Accreditation Committee.	Member
26-Nov-14	Present	Review of Appointment Regulations for University Sponsored.	Member
1-Jun-14	Present	Graduate Preparation for the Workplace.	Member
13-Mar-14	Present	Scientific Production Regulation and methodology for Humanity Colleges on Campus.	Member
12-Feb-14	Present	University World Ranking Committee	Member

9-Feb-14	9-May-14	Student Affairs Committee for modifying graduation requirements	Member
2-Dec-13	10-May-14	Committee for Reviewing Tenureship Regulations	Member
24-Nov-13	10-May-14	Committee for the Establishment of a Patent and Trademark Office at HU	Member
5-Nov-13	5-Dec-13	Committee for the Analysis of the results student accreditation test	Member
29-Aug-13	6-Sep-13	Committee for the feasibility of the inception 2nd summer semester	Member
2-Jul-13	23-Jul-13	Committee for re-evaluation of the grading scale adopted at the university (from GPA to percentage).	Member
10-May-12	10-Jul-12	Committee for the inception of a new course on "Entrepreneurship" to be a university required course.	Member
31-Jan-12	1 Sep. 2016	Faculty of Engineering.	Dean
22-Sep-11	31-Jan-12	Faculty of Engineering.	Vice Dean
20-Aug-05	22-Sep-11	Department of Architecture.	Chair

### Administrative Committees/Meeting schedule

Start	Finish	Committee Name/Tasks	Position
21-Sep-15	Present	Public Safety and Emergency Committee	Member
20-Sep-15	27-Nov-19	Appointment and Promotion Committee	Member
13-Sep-15	Present	Housing Committee	Member
29-Jun-15	Present	Horizon 2020 Inclusion and Incentives Regulations for Faculty, Members Committee	Member
26-May-15	Present	Syrian Refugee Projects and Programs (Age group 18-24)	Member
13-Nov-	1-Sep-	Central Contracts Committee	Member
1 Sep. 2016	27 Nov-19	Central Contracts Committee	Chair
2-Nov-14	2-Feb-15	Committee for the tendering and lease of the female housing units to the private sector	Chair
8-Oct-14	Present	Hashemite University Council	Member
9-Apr-14	Present	University Position Categorization for the purposes of appointment and promotion of University Staff Members	Chair
17-Dec-13	Present	Crisis Management Committee	Member
27-Nov-13	27-Jan-14	Hashemite University Vision 2020 Committee	Member

6-Oct-13	10-May-14	Committee to Review Requests of University Investment	Chair
3-Oct-13	8-Oct-14	Hashemite University Council	Member
22-Sep-13	29-Sep-13	Committee to Review Scholarship Awarding Criteria	Member
2-Sep-13	2-Nov-13	Committee to review Public Services Bureau Job Market Recommendations	Member
1-Jul-13	10-Jul-13	Committee of reappraisal and remuneration of the commercialized zones	Chair
4-Mar-13	4-Apr-13	Committee of evaluation of commercialized zones at the university and adherence to public safety regulations	Chair
3-Feb-13	3-Apr-13	Committee on the maximization of the usage of the Liaison office in Amman	Member
17-Jan-13	17-Apr-13	Committee for Iraqi faculty members' recruitment	Member
13-Dec-12	10-Sep-13	HU Housing Committee	Member
26-Sep-11	25-Feb-12	Engineering Projects Department	Acting Director
17-Sep-08	17-Sep-11	Engineering Projects Department	Acting Director

### Engineering Projects and Project Management

Start	Finish	Committee Name/Tasks	Position
25-Feb-15	Present	Engineering Projects Department.	Director
14-Jan-	Present	Establishing of a Training Pharmacy at HU.	Member
29-Dec-14	30-Jun-15	Committee for Evaluation the Tender Offers for the 5MWp Photovoltaic Projects at the University.	Chair
1-Oct-14	22-Oct-14	Committee on the Prioritization of the University Projects for the funding by MoHE	Member
17-Mar-14	Present	Feasibility and Economic Study of the Offer Provided by Zain Telecom for the Establishment of a Zain Integrated Site on Campus.	Chair
2-Jan-14	10-May-14	Committee to assess the offer by Jordan Petroleum Products Marketing Co.	Member
24-Dec-13	10-May-14	Engineering and Economics Committee for the "Museum of Natural and Human History" Design and Technical Requirements.	Chair
8-Dec-13	Present	Committee for Construction of the Stadium at HU.	Chair
4-Dec-13	4-Mar-14	The 2014-2016 University Business Plan	Member
19-Nov-13	10-May-14	University Construction Projects and Expansion Economic and Engineering Feasibility Committee	Member
27-Oct-13	20-Dec-13	Committee for the "Museum of Natural and Human History" Inception and Scope	Member
9-Oct-13	10-May-	Committee for establishing the Polytechnic	Chair

9-Oct-13	9-Dec-13	Technical Supervision Committee for the 30kWp PV Research	Chair
29-Aug-13	30-Nov-13	Technical Supervision Committee for the construction of the University Mosque.	Chair
29-Aug-13	10-May-14	Committee for the preliminary study, pre-design, and feasibility of establishing a Pharmaceutical Sciences Faculty Building.	Chair
31-Jul-13	10-May-14	Committee for the Supervision and follow up on the auxiliary construction projects on campus	Chair
16-Jul-13	16-Oct-13	Committee for ATM installation or Branch establishment for Cairo Amman Bank	Chair
10-Jul-13	10-Aug-13	Committee for the campus accessibility and services for the disabled students and staff	Chair
8-Jul-13	22-Jul-13	Committee for the study of the feasibility of establishing a tourism village at the university Campus.	Member
29-Jan-13	29-Jul-13	Committee for the establishment of a Research Center at HU.	Member
27-Feb-12	Present	Engineering Projects Department	Director
4-Aug-11	11-Aug-11	Committee for the improvement of catering services on campus and putting the engineering plans to assure adherence.	Member
8-Feb-10	8-Oct-10	Committee for the Commissioning and handover of the Complex Halls Project.	Chair
8-Apr-07	8-Oct-07	Technical Committee for the Design and Construction	Chair

### External Committees / Meeting schedule

Start	Finish	Committee Name/Tasks	Position
14-Jul-15	Present	Industrial Research and Development Fund Executive Committee	Member
16-Oct-14	Present	Scientific Consultation Committee at the Department of Antiquities	Member
9-Mar-14	14-Jul-15	Industrial Research and Development Fund	Member
6-Mar-14	Present	MoU with Ministry of Energy and Mineral Resource.	Liaison Officer
29-Jan-14	Present	Consultation Committee with ARMICO	Chair
3-Nov-13	9-Mar-14	Industrial Research and Development Fund	Member
6-Dec-12	6-Mar-13	Ministry of Higher Education Committee for review of accreditation renaming requirements for Architectural Engineering	Member