

# Shaher Rababeh, Hashemite University Vice President



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## ABOUT

### ARCHITECT AND PLANNER

*Architectural Heritage and Urban Planning Expert;*

*Construction Technology; Sustainability; Architectural Technology and Theory; Design Studio Teaching; Professional Practice; Property and the Construction Industry; Existing and Historic Buildings.*

Shaher Rababeh is a full professor of architecture and construction, 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 at the Hashemite University, Jordan (Feb. 2012-Sep. 2016), the founder and the director of the Energy Center (Oct. 13.2017-present), and the vice president of the Hashemite University (1<sup>st</sup> Sep.2016-Present). 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 for eleven years. 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 organisation: 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 and 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 CONSERVATOR

Energetic Architect Professor utilizes a very interactive approach to deliver efficient and reliable solutions to critical and complex problems. Over 30 years Professional Practice: project management, design, construction, 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 in the field of photovoltaic farm project at the Hashemite University in Jordan.

### AREAS OF EXPERTISE

- Team Leadership.
- Architectural Heritage and Archaeology.
- Classical and Islamic Architecture.
- General Management.
- Cultural Resources Management.
- Building Construction Techniques and Methods of Design.

## CORE QUALIFICATIONS

- Rock-Cut Architecture.
- Architectural Design and Conservation.
- Urban Planning and Landscape.
- Evaluating the Stability of Historic Buildings and their Restoration Architectural Professional Practice.
- Strategic Planning.
- Sustainable Design and Energy.
- Environmental Control.
- Cultural Heritage Protection Research and Development.
- Dispute Resolution.
- Quality Assurance.
- Museum Architecture.
- Construction Management.

- Published several articles in notable international journals.
- Create a dynamic culture that inspires innovation, creativity, intellectual curiosity and excellence.
- Significant experience as a senior executive in a higher education, Cultural Recourses Management, 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.
- Directing the Solar Energy Project (Shams Al Hashemiah) at the Hashemite University (5 MW).
- Familiar with a wide variety of financing and revenue generating techniques.

## EDUCATION

2005	PhD	University of Oxford, UK
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DPhil (=Oxford PhD) in Classical Architecture- Architectural Construction Techniques and Methods of Design. Lady Margaret Hall

2002	Master's degree	University of Oxford, UK
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Classical Architecture. Lady Margaret Hall

1987	Bachelor's degree	Yarmouk University, Jordan
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Architectural Engineering and Urban Planning (very Good)

1982	General	Secondary Deir Abu Saeed School, Jordan
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High Education Certificate, Scientific Branch (Excellent: 91.2)

## CAREER OBJECTIVE

### Research Interests

Shaher Rababeh is the author of *How Petra was Built*, a professor of architecture. His interests include architectural heritage and conservation, architectural history and theory, construction methods and technology, and architectural design. His work has covered many major monuments in Jordan and Syria, ranging from Petra and Gerasa, Bosra and Damascus, the Desert Palaces, to modern buildings.

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 Nabataean construction techniques, discovering and demonstrating how the Nabataeans 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 social and economic contexts in which they occur and explores how these change 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 geology, which provides information about the availability of building materials, how this affects earthquake damage.

## 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 thirteen 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 practical 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. It is my belief, my theoretical position that thus equipped the students will be better prepared to face the rapidly changing circumstances that novel communication and expressive technologies have enabled. 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 group project meetings, particularly in site analysis stage, we spent a significant amount of time discussing the possible approaches that might be used to solve various design problems. I try to maintain a gentle balance of encouragement and constructive criticism that recognizes and responds to the strengths and weaknesses of each student.

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 main values common to any organisation: respect, team spirit, transparency and creativity. It should provide guidance, direction, leadership, and finally set an example to subordinates. My approach to a successful management was created from over thirty 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 treat 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. Being Focused to find success and Looking ahead to be Unique and making a difference at work approach will add value and uniqueness to the job. 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. If I do not exercise creative ways I get to nowhere sooner or later. 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 judged.

## EXPERIENCE

- Vice President of the Hashemite University, Jordan.
- University Engineering Projects Director (Establisher).
- University Renewable Energy Center Director (Establisher).

*1st Sep. 2016 – Present                      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 Tendering Committee.

Member of the University Appointment and Promotion Committee.

Member of the University Deans Council.

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

Evaluate bids in accordance with the specifications.

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.

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

Following the productivity of the Solar Project.

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

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 four academic faculties (Engineering, IT, Natural Resources, and Faculty of Arid Lands).

Establishing a master program in architecture.

Taught and supervised the following courses:-Graduation Project I, II, and Research Methodology for Master Students.

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

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

Emirates Energy Award for the outstanding accomplishment of the Solar Project (Shams Al

Hashemiah) at the University, 2017.

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

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

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

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

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.

Presentation of management reports at board level.

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

Make recommendations to the President and the Vice President for Academic 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.
- Graduation Project I, II.

### **Achievements:**

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

Running 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 3,750,000 \$ 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 34500 square meter) will enhance the teaching environment and increase the number of admissions of undergraduate students by 7000. 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)**

Revising curriculums, 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 departments: Department of Engineering

Maintenance, Department of Engineering workshops, and Department of Engineering Projects.

Overall management of projects from conception to completion.

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

Management of project team functions.  
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.  
-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. 2011The Hashemite University, Jordan.*

**Responsibilities:**

Establishing the two departments, preparing curriculum, strategic plan, and annual budget, staff selection, launching the program.  
Overall management of projects from conception to completion.  
Ensure all operations undertaken in a safe manner in accordance with the regulations.  
Management of project team functions.  
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.  
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,
- 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 1.500.000 JD annual income.

Formulating and devising strategic plans and budgeting.

Problem solving abilities developed.

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

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

**Responsibilities:**

Teaching the following courses:

- Introduction to Archaeology
- Museology Science,
- Stability History of Architecture I, II
- Evaluation of Historic Buildings,
- Building Conservation,
- Islamic 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 AND ACHIEVEMENTS

### Skills:

#### Computer

-Blackboard (e-learning);

--Microsoft office 97,2000, XP, and 2007" 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);

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** AbuKhafajeh, 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:<http://dx.doi.org/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](http://dx.doi.org/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](http://dx.doi.org/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.

**FUTURE  
PUBLICATIONS**

- 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".

- Rababeh, S. and Awawdeh, S. "The Impacts of Building's Indoor and Outdoor Spaces Layout on Energy Consumption in Hot Arid Regions: The Hashemite University Campus Jordan"

-Rababeh, S.; Kasasbeh, M. "Construction Management Rules Used in Carving the Treasury of Petra".

-Rababeh, S.; Malaabeh, A. " 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. "Geological Formation and its Affect on the Design of the Rock-cut Monumental Facades at Petra and Medain Saleh", Unpublished (15 pages).

-Rababeh, S. "Rural Planning, Case study Kufr-Rakeb Village, Fieldwork Study, "Unpublished (30 pages).

-Rababeh, S. "Libraries, Architectural Study ". Unpublished research (Bsc. thesis, 180 pages).

## CHAIRING INTERNATIONAL CONFERENCES

Chair of The International Conference on Energy, Water & Environment (ICEWE2013): The ICEWE 2013 is 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 will be held at the Hashemite University, Zarqa, Jordan, during 21-24 April 2013.

## INVITED PROFESSIONAL

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

**PRESENTATION  
AND  
WORKSHOPS**

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 **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.

**MSc THESES  
EXAMINED**

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

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**

Edwan, R. , (2008) "Geotechnical Evaluation Physical and Mechanical Properties) of Limestone Rocks in Wadi Al-Ish and Ras Al-Ayn, Amman" (The Hashemite University).

Abu Mu'lla, F. , (2008) "Engineering Evaluation of Lower Cretaceous Sandstone in Jordan for possible construction applications"(The Hashemite University).

Abu-Mahfouz, I. (2006) "Petrogenesis of Irbid District Basalt Rocks (Al-Tura- Beit Ras), Northern Jordan and their Engineering

Evaluation as Building and Construction Materials".(The Hashemite University).

#### REVIEWER OF NATIONAL AND INTERNATIONAL JOURNALS

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

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

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

#### 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. Martha Sharp Joukowsky**

Center for Old World Archaeology and Art, Brown University

**Address:** Providence RI, USA

**Prof. Emad al-Hashimy**

Department of Architecture

**Address:** Jordan University for Science and Technology, Jordan.

**Prof. Amanda Claridge**

Faculty of Classics, Royal Holloway

**Address:** University of London, UK.

**Prof. R.R.R. Smith**

Lincoln Professor of Classical Archaeology and Curator, Ashmolean  
Museum of Art and Archaeology

**Address:** University of Oxford, UK.

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

the President of the Hashemite University

**Address:** Zarqa-Jordan

**Dr. J.J. Coulton**

Faculty of Classics

**Address:** University of Oxford, UK.

**Dr. Judith McKenzie**

Sub -Faculty of Archaeology, St Hugh's College

**Address:** University of Oxford, UK

**Dr. Alan Doig**

Lady Margaret Hall

**Address:** University of Oxford.

**Prof. Abolmaali Seyedali**

University of Texas at Arlington

**Address:** Arlington, USA.

**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”	Member
20-Sep-	Present	Appointment and Promotion Committee	Member
8-Sep-15	1-Sep. 2016	Dean of Engineering	Dean
5-May-	Present	University World Academic Ranking Committee	Member
23-Apr-15	Present	Study of Suggestions Presented by Royal Jordanian	Member
23-Apr-	1-Sep.16	ABET Accreditation Committee	Member
26-Nov-14	Present	Review of Appointment Regulations for University Sponsored	Member
1-Jun-	Present	Graduate Preparation for the Workplace	Member
13-Mar-14	Present	Scientific Production Regulation and methodology for Humanity Colleges on Campus	Member
12-Feb-	Present	University World Ranking Committee	Member
9-Feb-14	9-May-14	Student Affairs Committee for modifying graduation requirements	Member
2-Dec-	10-May-	Committee for Reviewing Tenureship Regulations	Member
24-Nov-12	10-May-14	Committee for the Establishment of a Patent and Trademark	Member
5-Nov-12	5-Dec-13	Committee for the Analysis of the results student accreditation test	Member
29-Aug-12	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	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-	Present	Public Safety and Emergency Committee	Member
20-Sep-	Present	Appointment and Promotion Committee	Member
13-Sep-	Present	Housing Committee	Member
29-Jun-15	Present	Horizon 2020 Inclusion and Incentives Regulations for Faculty	Member
26-	Present	Syrian Refugee Projects and Programs (Age	Member
13-Nov-	1-Seb-	Central Contracts Committee	Member
1 Sep. 2016	Present	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-	Present	Hashemite University Council	Member
9-Apr-14	Present	University Position Categorization for the purposes of appointment	Chair
17-Dec-	Present	Crisis Management Committee	Member
27-Nov-	27-Jan-	Hashemite University Vision 2020 Committee	Member
6-Oct-12	10-May-14	Committee to Review Requests of University Investment	Chair
3-Oct-	8-Oct-14	Hashemite University Council	Member
22-Sep-	29-Sep-	Committee to Review Scholarship Awarding	Member
2-Sep-13	2-Nov-13	Committee to review Public Services Bureau Job Market	Member
1-Jul-13	10-Jul-13	Committee of reappraisal and remuneration of the commercialized zones at the university	Chair
4-Mar-12	4-Apr-13	Committee of evaluation of commercialized zones at the university and adherence to public safety	Chair
3-Feb-12	3-Apr-13	Committee on the maximization of the usage of the Liaison office in Amman	Member
17-Jan-	17-Apr-	Committee for Iraqi faculty members' recruitment	Member
13-Dec-	10-Sep-	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-	Present	Engineering Projects Department	Director
14-Jan-15	Present	Establishing of a Training Pharmacy at HU	Member
29-Dec-14	30-Jun-15	Committee for Evaluation the Tender Offers for the 5MWp	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-12	10-May-14	University Construction Projects and Expansion Economic and Engineering Feasibility Committee	Member
27-Oct-12	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-12	10-May-14	Committee for the preliminary study, pre-design, and feasibility of establishing a Pharmaceutical	Chair
31-Jul-12	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 <del>Cairo Amman Bank</del>	Chair
10-Jul-12	10-Aug-12	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	Member
29-Jan-12	29-Jul-13	Committee for the establishment of a Research Center at HU	Member
27-Feb-	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	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
9-Mar-14	Present	Industrial Research and Development Fund Executive	Member
6-Mar-14	Present	MoU with Ministry of Energy and Mineral <del>Resource, Energy and Mineral Resource</del>	Liaison Officer
29-Jan-	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