



Tarek Q. Qasim
PhD – M.S – B.S.
(Mechanical Engineering)

PERSONAL INFORMATION

PERSONAL DETAILS

Current position: Associate Professor, Industrial Engineering Department, Faculty of Engineering
Jordan University of Science and Technology
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Marital status: Married / Two children

Nationality: Australian/Jordanian

Languages: English/Arabic (Fluent)

PROFILE

Dr. T. Qasim has combined academic, research, administration, and industrial experiences. He worked in the industry for more than ten years and achieved several research projects at the University of Western Australia (UWA) and Jordan University of Science and Technology (JUST). At UWA, for over seven years between 2001 and 2008, he has researched the structural integrity of brittle layer structures, with a strong focus on biomechanical implants. In September 2005, he was awarded a Ph.D. with distinction (less than 5% of these submitted attain this honor). Since then he has assumed a lead research role in a UWA program on biomedical materials operated jointly with prestigious U.S. partners, the National Institute of Standards and Technology and New York University. This work has resulted in the publication of over 38 archival journal papers, culminating in an invited review article to appear in June 2007 in the Journal of the American Ceramic Society. He has edited several technical papers for several journals and international conferences.

At Jordan University of Science and Technology, he held several administrative positions as “Assistant Dean of Research for Technology Transfer” and operated jointly with Jordanian partners and the European Union. In this role, he has the responsibility to support the Deanship of Research in various activities, computerized research activities at the deanship including e-forms and e-submission of research grants, and preparing the annual reports for internal and external funded programs. He was also involved in the establishment of the Technology Transfer Office at JUST, his role as Technology Transfer Officer was to screen all of the research projects at JUST for commercial potential and for assessment for patenting.

He has taught a broad range of engineering courses at US academic institutions, including The University of Western Australia, Jordan University of Science and Technology, and at several universities in Jordan, in the general fields of materials science, thermal science, and industrial and industrial safety engineering. He also supervised several undergraduate and graduate students in M.S. programs.

He has a sound knowledge of general computer applications, and specialized applications including, Finite Element Analysis modeling (ABAQUS; SolidWorks), Oracle, Engineering Drafting (A-CAD), E-Learning, and Web-CT (CE 6.0). He is also a member of professional associations such as the Institute of Engineers, AUSTRALIA, and the Jordan Engineering Association, JORDAN.

EDUCATION AND EXPERIENCE PROFILE

EDUCATION

Ph.D., Mechanical Engineering, The University of Western Australia, AUSTRALIA, 2006

Funding: Awarded by the Australian Research Council (ARC)

Dissertation: "Contact damage of brittle coatings on non-planar bilayers: An experimental and numerical study"

Award: Distinction

M.S., Mechanical Engineering, Tuskegee University, USA, 1986

Funding: Partial funding awarded by NASA

Dissertation: "Flowfield measurements behind cylinders in cascade"

B.S., Mechanical Engineering, University of Mosul, IRAQ, 1983

Project: "Computer-aided manufacturing processes"

ACADEMIC AND PROFESSIONAL POSITIONS HELD

Associate Professor: April 2018 – Current

Industrial Engineering Department, JUST, JORDAN.

Responsibilities: Teaching various engineering courses, supervising master's thesis and undergraduate final year projects, and serving in various departments and faculty of engineering committees. Student's academic advising. Organize and deliver several workshops. Liaise with the industry for scientific days and funding.

Assistant Professor: Feb 2009 – March 2018

Industrial Engineering Department, JUST, JORDAN.

Responsibilities: Teaching various engineering courses, supervising master's thesis and undergraduate final year projects, and serving in various departments and faculty of engineering committees. Student's academic advising. Organize and deliver several workshops. liaise with the industry for scientific days and funding.

Assistant Dean of Research for Technology Transfer;

Deanship of Scientific Research, JUST, JORDAN, Sep 2012 – Sep 2013.

Responsibilities: Establish a link between the research activities at the university and the local industries to identify the local industry needs for research by fostering research and innovation linked to the private sector. Assessment of research results for potential commercialization and patenting. Support the Deanship's various activities. Publish the Deanship of Research newsletter. Organize the annual DR Funded Research Conference (FRC).

Assistant Dean of Research;

Deanship of Scientific Research, JUST, JORDAN, Dec 2009 – Sep 2011.

Responsibilities: Support the Deanship's various activities, computerized research activities at the deanship including e-forms and e-submission of research grants, and preparing the annual report for internal and external funded programs. Attended, organized, and delivered several workshops related to Intellectual Property (IP), patenting, and commercialization of research outcomes.

Technology Transfer Officer (TTO);

Jordan University of Science and Technology, JORDAN, Jan 2010 – Sep 2011.

Responsibilities: Establishing a Technology Transfer Office (TTO) at JUST, in collaboration with the Higher Council for Science and Technology (HCST) and the Intellectual Property Commercialization Office (IPCO) at El-Hassan Science City (HSC) to work on the SRTD project “Support to Research and Technological Development & Innovation Initiative & Strategies in Jordan (SRTD)”. To establish a link between the research activities at the university and the local industries and to identify the local industry needs for research by fostering research and innovation linked to the private sector. The SRTD program is funded by the European Union. Assessment of research results for potential commercialization and patenting.

ARC Research Fellow (Australian Postdoctoral Fellowship);

School of Mechanical Engineering, UWA, AUSTRALIA, Jan 2008 - Jan 2009

Responsibilities: Teaching and researching various engineering courses, supervising master’s students, and undergraduate honors projects.

Lecturer/Research Fellow;

School of Mechanical Engineering, UWA, AUSTRALIA, Jan 2006 – Dec 2007

Responsibilities: Research and teaching of various engineering courses, lab coordinator, supervision of master’s thesis, and undergraduate honors projects.

Research Associate;

School of Mechanical Engineering, UWA, AUSTRALIA, Jun 2005 – Dec 2005

Responsibilities: Research and co-supervision of undergraduate honors projects.

Safety Officer;

Caltex Refinery, NSW, AUSTRALIA, Nov 1994 - Jul 2000

Responsibilities: Ensure safety measures are implemented to Caltex Refinery safety standards during maintenance and shutdowns.

Technical Trainer;

Sirte Oil Company (ESSO), LIBYA, Feb 1993 - Sep 1994

Responsibilities: Coordinate and prepare training programs to suit Sirte Oil Company employees, conducted theoretical and practical training in basic engineering subjects such as control systems and engineering drafting. Training of national employees, and implementation of “City and Guilds of London Institute” programs 8200, 8210, and 8250.

ACADEMIC AND TEACHING PROFILE

TEACHING ACTIVITIES

- At Jordan University of Science and Technology (JUST); I Taught/Lectured several engineering courses (2009–Current). The teaching load policy at JUST is 12 hours each semester including 3 courses, academic advising of undergraduate graduation projects, and Master’s thesis supervision.
 1. IE790 – Industrial Engineering Seminar.
 2. IE760 – Advanced Engineering Materials.
 3. IE560 – Reliability and Maintenance Engineering.
 4. IE557 – Introduction to Project Management.
 5. IE555 – Safety Engineering and Management.
 6. IE545 – Project Management.
 7. IE546 – Manufacturing Information Systems (Including ORACLE-database).
 8. ME528 – Thermal Power Plants.
 9. IE490 – Engineering Practice.
 10. IE467 – Manufacturing Processes Laboratory.
 11. IE462 – Engineering Material Laboratory.
 12. IE361 – Engineering Materials.
 13. IE214 – Fluid and Thermal Sciences.
 14. IE211 – Mechanics of Materials.
 15. EE202 – Communication Skills for Engineers.
 16. IE591 – Graduation project-1.
 17. IE592 – Graduation project-2.
- At The University of Jordan (JU), Industrial Engineering Department.
 18. 0906483 – Industrial Safety Engineering.
- At Philadelphia University, Mechanical Engineering Department.
 19. 620344 – Engineering Measurements.
- At Al-Balqa Applied University, Al-Huson University College.
 20. 39068553 – Food Refrigeration.
- At The University of Western Australia (UWA); (2002-2008):
 21. 630.101 – Introduction to Professional Engineering.
- At various educational institutes/locations (1986 - 2002):
 22. Applied Physics I and II (Alexander City State Junior College, USA).
 23. Engineering Statics and Dynamics (Teaching Assistant at Tuskegee Uni. the USA).

ADMINISTRATIVE AND INFORMAL TEACHING ACTIVITIES

1. Supervising several master's degree students and final year projects in the Industrial Engineering Department at Just, (2009 – Current).
2. Supervising three master's degree students and eight undergraduate honors projects in Mechanical Engineering, and one from The Dental School at UWA, (2002 – 2009).
3. Master's degree thesis and final year projects examiner at Jordan University of Science and Technology and the University of Jordan (2009-Current).
4. Master's degree thesis and final year projects examiner at UWA (2002-2008).
5. Committee member of The 2nd Funded Research Conference (FRC2); 2013 at JUST.
6. Serving at Jordan University of Science and Technology (JUST) in the Internal Auditing Committee for ISO Quality Management Committees Project, as a Certified Internal auditor at JUST (2012-Current).
7. Screening of all research projects and assessment of research results for commercial potentials at JUST (2010-2011).
8. Assessment of research results for patenting and liaising between the researchers and the regularity authorities for registering patents at JUST (2010-2013).
9. Serving on scientific research committee at Deanship of Scientific Research, JUST (2010-2011).
10. Organize the computerization of all Deanship of Research activities; Forms; Grant application; Finance; Webpage at JUST (2010-2013).
11. Project Director and Producer of the Deanship of Research News Letter, JUST (2010-2013).
12. Organized and delivered training workshops for final year students on Technical Communications Skills in collaboration with the Deanship of Students Affairs at JUST (2010-Current).
13. Serving in various departments and facilities of engineering committees – ABET accreditation committee, Graduation Projects Committee; Staff Hiring Committee; Seminars and Community Services Committee; liaison with the Local Industries Committee; Laboratory Design, Construction, and Renovation Committee; Students Affair Committee – at the Industrial Engineering Department, Jordan University of Science and Technology (2009-Current).
14. Participated as a Judge, in March 1986. "North East Regional Research Paper Competition". Alabama Junior Academy of Science. Alexander City, USA.
15. Postgraduate students' representative in the "School Safety Committee" at The University of Western Australia (2004-2006).
16. Coordinate the research group's interdisciplinary activities with the Chemical Engineering Department, Dental School, and Centre of Microscopy and Microanalysis (CMM) at UWA (2006-2007).
17. Participated in UWA EXPO (2003-2006); The University presented the campus to the community and enabled prospective students and their families to find out about the courses on offer.
18. Member of the organizing committee for "Structural Integrity and Failure Conference (SIF2008)". The institute of materials engineering, Perth WA, Australia.

RESEARCH AND PUBLICATIONS PROFILE

RESEARCH INTERESTS

- Fracture and fatigue of engineering materials;
- Advanced structural ceramics and composites;
- The structural integrity of brittle layer structures with a focus on biomedical structures;
- Fracture mechanics modeling;
- Coupling finite element analysis (FEA) results with experimental observations.

RESEARCH FUNDINGS

- 1- Co-Principal Investigator: The project titled "Studying the effect of changing the shape factor on the efficiency of the flexible solar panels" amounts to 9,250 US\$ for two years from 2018 to 2019. Digital Proposal Number: 278-2018; Grant Number: 20180348.
- 2- Co-Principal Investigator: The project titled "Cross-border NETwork to foster Knowledge-intensive Business Incubation and Technology transfer – NET KITE" for 220,780.00 Euro for two years from 2013 to 2014. Funded by ENPI CBC Programme.
- 3- Principal Investigator: The project titled "Failure modes in biomechanical ceramic-based layer structures: In dry and wet conditions relevance to failure of dental restorations" amount of 67,500 US\$ for two years from 2011 to 2012. The contract number is (SRF/Ministry of Higher Education and Scientific Research) 2011/242.
4. Co-Principal Investigator: The project titled "A comparative study for the localized corrosion resistance of uncoated mild steel, plasma coated mild steel and 304 stainless steel in simulated electrolytes for the food processing equipment wash-down processes" in the amount of 20,000 US\$ for two years from 2011 to 2012. The contract number is (DR at JUST) 2011/103.
5. Principal Investigator: The project titled "Statistical Investigation of the influence of pre-heating and post-cooling temperatures on critical-to-quality characteristics of hot-dip-galvanizing" amount of 5,050 US\$ for two years from 2010 to 2011. The contract number is (DR at JUST) 2010/193.
6. Co-Principal Investigator: The project titled "An investigation of joining Aluminium composites by friction stir welding" amounted to 6,000 US\$ for two years from 2010 to 2011. The contract number is (DR at JUST) 2010/195.
7. Chief Investigator (Solo Grant) (CI) of a project titled "Failure modes in ceramic-based layer structures: Relevance to failure of dental crowns" the amount of 260,144 AU\$ for three years from 2008 to 2010. The contract number is (ARC) DP0878113.
8. Co-Partner Investigator (PI): The project titled "Failure of Complex Biomechanical Structures" amounted to 370,000\$ AU for three years from 2006 to 2008. The contract number is (ARC) DP0665327.
9. Ad Hoc Postgraduate Scholarship: The project titled "Contact damage of brittle coatings on non-planar bilayers" for two years from 2003 to 2005. ARC grants number 35338000.

JOURNAL PUBLICATIONS "Peer-Reviewed"

1. Obeidat M., Sarhan L., Qasim T. The Influence of Human Resource Management Practices on Occupational Health and Safety in the Manufacturing Industry. *International Journal of Occupational Safety and Ergonomics*; **2022**; posted online: 01 Sep 2022.
2. Obeidat M., Bilal R. M., Qasim T. The Effect of Changing the Shape Factor on the Efficiency of the Flexible Solar Modules. *Renewable Energy Focus*; **2022**; Vol. 41: pp. 118-132.
3. Obeidat M., Qasim T., Traini H. A Multi-Criteria Decision Making Approach to Rank Water Desalination Technologies. *Desalination and Water Treatment*; **2021**; 238: pp.125-134.
4. Qasim T., Alqawasmi M., Hawash M., Betar, M., Qasim W. Modeling Jordan University of Science and Technology Parking Using Arena Program. *International Journal of Transport and Vehicle Engineering*; **2019**; Vol. 13(6): pp. 332-336.
5. Qasim T., El-Masoud B., Abu Laban A. The effect of resistance grooves on the fracture toughness of zirconia-based crowns from mono and cyclic loading. *European Journal of Dentistry*; **2018**; Vol. 12(4): pp. 491-495.
6. Qasim T., El Masoud B., Ailabouni D. The fracture resistance of zirconia-based dental crowns from cyclic loading: A function of relative wear depth. *International Journal of Biotechnology and Bioengineering*; **2018**; Vol. 12(8): pp. 199-203.
7. Qasim T., Obeidat M., Smadi H. Technical and Economical Evaluation of a Fresh-Water Production from Zero-Wastewater Reverse Osmosis System: A feasibility study in Jordan. *Review of European Studies*; **2018**; Vol. 10(2): pp. 53-59.
8. Obeidat M., Qasim T., Khanfar A. Implementing the AHP multi-criteria decision approach in buying an apartment in Jordan. *Journal of Property Research*; **2018**; Vol. 35(1): pp. 53-71.
9. Qasim T., Obeidat M., Al-Sharairi S. The Effect of Smartphones on Human Health Relative to User's Addiction: A Study on a Wide Range of Audiences in Jordan. *International Journal of Medical, Health, Biomedical, Bioengineering, and Pharmaceutical Engineering*; **2017**; Vol. 11(5): pp. 282-285.
10. Qasim T., Abu-Haifa A., Abu-Haifa. Design and performance of new zero-waste water small-size reverse osmosis desalination system. *Desalination and Water Treatment*; **2016**; Vol. 57: pp. 5385-5390.
11. Qasim T., Al-Khateeb S. Fracture of porcelain fused to yttria-tetragonal zirconia polycrystals dental crowns from dual-motion cyclic loading in aqueous condition. *Procedia Engineering*; **2015**; Vols. 114: pp. 5-10.
12. Qasim T., Al-Faouri M., Al-Araidah O. The impact of preheating and post-cooling on critical-to-quality characteristics in hot-dip galvanizing. *Materials and Manufacturing Processes*; **2014**; Vol. 30: pp. 793-797.
13. Qasim T., Al-Khateeb S. Crack's interaction due to sequential indentation in curved brittle coating: Effect of relative orientation. *Key Eng. Mater. Advances in Fracture and Damage Mechanics XII*; **2013**; Vols. 577-578: pp. 313-316.
14. Almomani M, Hassan A, Qasim T., Ghaithan A. Effect of process parameters on the corrosion rate of friction stir welded aluminum SiC-Gr hybrid composites. *Corrosion Engineering Journal*; **2013**; Vols. 48(5): pp. 346-353.
15. Hassan A, Almomani M, Qasim T., Ghaithan A. Effect of Processing Parameters on Friction Stir Welded Aluminium Matrix Composites Wear Behaviour. *Materials and Manufacturing Processes*; **2012**; Vol. 27: pp. 1419-1423.
16. Hassan A, Qasim T., Ghaithan A. Effect of Pin Profile on Friction Stir Welded Aluminium Matrix Composites. *Materials and Manufacturing Processes*; **2012**; Vol. 27: pp. 1397-1401.

17. Hassan A, Almomani M, Qasim T, Ghaithan A. Statistical analysis of some mechanical properties of friction stir welded aluminum matrix composite. *International Journal of Experimental design & Process Optimisation*; **2012**; Vol. 3(1): pp. 91-109.
18. Qasim T, Al-Etaiwi T, Al-khasheb M. Analysis and Developments of PGNAA Installation at Al-Rashadiya Lafarge Cement Plant in Jordan. *Proceedings of the 2011 International Conference on Industrial Engineering and Operations Management*, Kuala Lumpur, Malaysia, January 22 – 24; **2011**; pp. 1219 – 1224
19. Qasim T, Khee W Y, Weilun C, Zhi Hu X. Contact Damage of Curved Multi-Layered Ceramics: Prepared by Slip Casting Technique. *Key Eng. Mater. Advances in Fracture and Damage Mechanics III*; **2010**; Vols. 417-418: pp. 461-464.
20. Qasim T. Coating/substrate modulus mismatched and margin geometry effects on contact damage in curved brittle coating systems. *Advanced Materials Research*; **2008**; Vols. 41-42: pp. 49-55.
21. Lam S, Holliday K, Qasim T. The effect of cyclic loading on fracture modes in brittle layer structures: Relevance to failure of dental crowns. *Advanced Materials Research. Structural Integrity and Failure*; **2008**; Vols. 41-42: pp. 21-26.
22. Whitton A, Qasim T, Ford C, Bush M, Hu X-Z. The role of skirt geometry of dental crowns on the mechanics of failure: Experimental and numerical study. *Med. Eng. & Phys.*; **2008**; 30: pp. 661-668.
23. Qasim T, Hu X-Z, Bush M. Indenter/coating modulus mismatches and load location effects on contact damage in curved brittle-based bi-layer structures. *Advanced Materials Research. Structural Integrity and Failure*; **2008**; Vols. 41-42: pp. 33-39.
24. Ford C, Qasim T, Bush M, Hu X-Z, Shah M, Saxena VP. Lawn B. Margin Failure in Crown-Like Brittle Structures: Off-Axis Loading “Influence of Margins Geometry”. *J. Biomed. Mater. Res.: Part B-Applied Biomaterials*; **2008**; 85B: pp. 23-28.
25. Qasim T. Influences of complex loading and margin geometry: Failure of curved brittle layer structures. *Int. J. Frac.*; **2007**; 144: pp. 35-44.
26. Lawn B, Bhowmick S, Bush M, Qasim T, Rekow ED, Zhang Y. Failure modes in ceramic-based layer structures: A basis for materials design of dental crowns. *J. Am. Ceram. Soc.*; **2007**; 90[6]: pp. 1671-1683.
27. Qasim T, Ford C, Bush M, Hu X-Z, Lawn B, Malament K. Margin failure in brittle dome structures: Relevance to failure of dental crowns. *J. Biomed. Mater. Res.: Part B-Applied Biomaterials*; **2007**; 80B: pp. 78-85.
28. Qasim T, Whitton A, Ford C, Bush M, Hu X-Z. The influence of margin geometry on failure in brittle coatings on compliant substrate: Relevance to failure of dental crowns. *Key Eng. Mater. Advances in Composite Materials and Structures*; **2007**; Vols. 334-335: pp. 573-576.
29. Ford C, Qasim T, Bush M, Hu X-Z. Influence of tapered coatings on stress in layered structures: Relevance to failure of dental crowns. *Key Eng. Mater. Advances in Composite Materials and Structures*; **2007**; Vols. 334-335: pp. 77-580.
30. Qasim T, Ford C, Bush M, Hu X-Z. Contact damage in brittle curved coatings: The influence of indenter/coating modulus mismatches. *Key Eng. Mater. Fracture of Materials: Moving Forwards*; **2006**; Vols. 312: pp. 369-374.
31. Mukmin I, Qasim T, Hu X-Z. Contact damage of curved zirconia/epoxy bi-layers. *Strength Fracture and Complexity/Int. J.*; **2006**; 4: pp. 213-223.
32. Qasim T, Bush M, Hu X-Z. The influence of complex surface geometry on contact damage in curved brittle coatings. *Int. J. Mech. Sci.*; **2006**; 48: pp. 244-248.
33. Qasim T, Ford C, Bush M, Hu X-Z, Bongué-Boma M. Effect of coating thickness on crack initiation and propagation in non-planar bi-layers. *Mater. Sci. Eng.*; **2006**; (A) 419: pp. 189-195.

34. Qasim T, Ford C, Bush M, Hu X-Z, Lawn B. Effect of off-axis concentrated loading on the failure of curved brittle layer structures. J. Biomed. Mater. Res.: Part B-Applied Biomaterials **2005**; 76B: pp. 334-339.
35. Rudas M, Qasim T, Bush M, Lawn B. Failure of curved brittle layer systems from radial cracking in concentrated surface loading. J. Mater. Res. **2005**; 20(10): pp. 2812-2819.
36. Qasim T, Bush M, Hu X-Z, Lawn B. Contact damage in brittle coating layers: Influence of surface curvature. J. Biomed. Mater. Res.: Part B-Applied Biomaterials; **2004**; 73B: pp. 179-185.
37. Qasim T, Ford C, Bush M, Hu X-Z. Effect of indenter size on critical conditions for contact damage in planar and non-planar bi-layers. Strength Fracture and Complexity/ Int. J.; **2004**; 2: pp. 81-93.
38. Qasim T, Bush M, Hu X-Z. A numerical/experimental study of contact damage in non-planar porcelain/metal bi-layers. Int. J. Mech. Sci.; **2004**; 46: pp. 827-840.
39. Qasim T, Bush M, Hu X-Z. Contact damage in curved porcelain/metal bi-layers. Key Eng. Mater. Advances in Fracture and Failure Prevention; **2004**; Vols. 261-263: pp. 375-380.

CONFERENCES

1. Erasmus+ Staff Mobility Training. July 18-24, 2021; Transilvania University of Braşov, Romania.
2. International Conference on Transportation Planning (ICTPP 2019); June 27 - 28, 2019; Istanbul, Turkey.
3. 19th International Conference on Industrial and Management Engineering (ICIME 2017); May 26 - 27, 2017; Barcelona, Spain.
4. The International Conference on Communication, Management and Information Technology (ICCMIT 2017); April 3-5, 2017; University of Warsaw, Warsaw, Poland.
5. International Conference on Structural Integrity (ICSI); September 1-4, 2015; Funchal, Portugal.
6. 12th International Conference on Fracture and Damage Mechanics; September 17-19, 2013; Alghero, Sardinia, Italy.
7. Internationalization Higher Education ... Going Global Conference. Dubai World Trade Centre; 2013; 4 – 6 March: Dubai, UAE.
8. The 1st Funded Research Conference (FRC-2012); 2012 April 24: JUST, Irbid, Jordan.
9. International Conference on Industrial Engineering and Operation Management; 2011 Jan 22-24; Kuala Lumpur, Malaysia.
10. The Support to Research Development and Innovation and Strategies in Jordan (SRTD), Final Conference; 2010 December 9th: Amman, Jordan.
11. 6th National Tempus Conference; 2010 December 15th: Jordan University, Amman, Jordan.
12. Association of European Science and Technology transfer Professionals (ASTP) 10th anniversary, Building on 10 years of success; 2010 May 27-28: Paris, France.
13. The 8th International Conference on Fracture and Damage Mechanics; 2009 Sep. 8-10: ST. GEORGE'S BAY, Malta.
14. International Conference and Exhibition on Structural Integrity and Failure (SIF-2008); 2008 July 9-11: The University of Western Australia, Perth, Australia.
15. International Workshop on Mechanics-Based Design of Materials; 2008 July 14-16; The University of Western Australia, Australia.
16. The Final Year Technology Conference; 2008 May 22-23: The University of Western Australia, Perth, Australia. Abd Rashid A, Qasim T. Simulation investigation and practical application of optimized injection patterns for water flooding.

17. An International Workshop on "Fracture of Materials: Moving Forward"; 2006 Jan 23-25: The University of Sydney, Australia.
18. **Guest Speaker.** The Annual Review of Research into the Initiation and Propagation of Damage in All-Ceramic Layer Structures; 2006 Jan 13-14; New York University, USA.
19. **Guest Speaker.** The Annual Review of Research into the Initiation and Propagation of Damage in All-Ceramic Layer Structures; 2005 Jan 11-13; New York University, USA.
20. The Fifth International Conference on Fracture and Strength of Solids; 2004 Oct 20-22: Tohoku University, Sendai, Japan.

ARTICLES AND RESEARCH REPORTS REVIEWED; BOOK EDITED

- Technical Reviewer for the following international journals:
 1. Journal of Biomedical Materials Research: Part B – Applied Biomaterials;
 2. International Journal of Fracture;
 3. International Journal of Solids and Structures;
 4. Journal of Dental Research;
 5. Key Engineering Materials;
 6. Advanced materials research;
 7. Journal of Biomechanics;
 8. Review of European Studies Journal;
 9. Pakistan Journal of Scientific and Industrial Research.
 10. International Journal of Applied Decision Sciences (IJADS).
 11. Jordan Journal of Mechanical and Industrial Engineering (JJMIE).
 12. International Journal of Mechanical Engineering and Applications.
 13. International Journal of Advanced Manufacturing Technology.
- Technical reviewer for “International Conference on Industrial Engineering and Operation Management (IEOM 2011)”. Kuala Lumpur, Malaysia 22-24, 2011.
- Structural Integrity and Failure, 2008. Trans Tech Publication Ltd.
- Technical reviewer for the International Workshop on "Fracture of Materials: Moving Forwards", 2006. The University of Sydney, Australia.
- Technical reviewer for “Structural Integrity and Failure Conference (SIF2008)”. The institute of materials engineering, Perth WA, Australia.

PERSONAL DEVELOPMENTS PROFILE

HONORS AND AWARDS

- Best paper award. ICMHA 2017, 19th international conference on mobile health applications conference. Barcelona, Spain, in 2017.
- Seventh National Technology Award for the final year graduation project. Yarmouk University, Jordan. In collaboration with UN Women and Queen Rania Centre for Entrepreneurship, 2014.
- Research Travel Award from the University of Western Australia, 2004.

PROFESSIONAL AFFILIATIONS

1. Graduate Member of the Institute of Engineers, AUSTRALIA;
2. Member of the Jordan Engineering Association, JORDAN;
3. Member of the Community of Science Network (COS);
4. Member of the Australian Research Network for Advanced Materials (Australian Research Council);
5. Member of the Association of European Science and Technology transfer Professionals (ASTP);
6. Member of Jordan Society of Scientific Research, JORDAN;
7. Member of MENA400 network, KAUST.

TRAINING AND WORKSHOPS COORDINATED AND CONDUCTED

1. **Safety and Occupational Health Diploma**, 2014 and 2017
Coordinator and trainer, 10 weeks course managed by Convulsive Centre for Science and Technology (JUST) in collaboration with the ministry of labor and ministry of higher education in Jordan, Irbid JORDAN
2. **Communication Skills (for employees)**, 9-12 February 2014
Convulsive Centre for Science and Technology (JUST), Irbid JORDAN
3. **Confined Space Entry**, 3-5 December 2013
Convulsive Centre for Science and Technology (JUST), course accredited by Ministry of Labor Jordan according to JCIA and HCAS standards, Irbid JORDAN
4. **Construction Industry Standards and Health**, 3-5 December 2013
Convulsive Centre for Science and Technology (JUST), course accredited by Ministry of Labor Jordan according to JCIA and HCAS standards, Irbid JORDAN
5. **Fire Fighting and Evacuation Plans**, 19-21 December 2013
Convulsive Centre for science and technology (JUST), course accredited by Ministry of Labor Jordan according to JCIA and HCAS standards, Irbid JORDAN
6. **Thesis Writing**, 4-5 May 2011
Workshop / Institute of Industrial Engineering (IIE-Jordan), Irbid, JORDAN
7. **Presentation skills**, 4-5 May 2010
Workshop / Institute of Industrial Engineering (IIE-Jordan), Irbid, JORDAN

PROFESSIONAL DEVELOPMENT WORKSHOPS ATTENDED

1. **Database Copyright Protection Using Digital Watermarking**, 06 June 2013
Workshop / the Higher Council for Science and Technology (HCST), Amman JORDAN
2. **How to be an Auditor**, June 12th, 2012
Academic Development Centre at JUST, Irbid JORDAN
3. **Certified Internal Auditor (CIA)**, May 8th, 2012
Academic Development Centre at JUST, Irbid JORDAN
4. **Research and Higher Education Forum**, April 5th, 2011
Hosted by Columbia University Middle East Research center in collaboration with AMIDEAST and Jordan Society for Scientific Research, Amman JORDAN
5. **Statistical Analysis using SPSS Software**, 03-04 April 2011
The consultative center for science and technology at JUST, Irbid JORDAN
6. **Role of Scientific Research in Production of Biogas from Plant and Animal Wastes**, 16-17 March 2011
Member of the organizing committee and participated in the symposium organized by the Federation of Arab Scientific Research Councils and Deanship of Research at Jordan University of Science and Technology, Irbid JORDAN
7. **Intellectual Property (IP) Policies**, October 2010
Workshop / The Higher Council for Science and Technology (HCST) and The Support to Research and Technological Development and Innovation Initiatives and Strategies in Jordan (SRTD), Amman JORDAN
8. **Jordan's National Strategy for Start-ups and Incubation 2010-2015**, August 2010
Workshop / Organized by Jordan Enterprise Development Corporation (JEDCO), Amman JORDAN
9. **Identifying Commercially Viable IP in a Research Institute**, July 2010
The Higher Council for Science and Technology (HCST) and The Support to Research and Technological Development and Innovation Initiatives and Strategies in Jordan (SRTD), Amman JORDAN
10. **Modern University Instructional Method**, July 2010
Academic development center, Jordan University of Science and Technology, JORDAN
11. **Technology Transfer Officers Internship**, June 2010
The Support to Research and Technological Development and Innovation Initiatives and Strategies in Jordan (SRTD), training tour in four European countries (Germany, Czech Republic, Slovenia, and Swiss republic) visiting several universities and research centers and TT offices.
12. **Bridging Science and Business: Expanding the Network**, June 2010
The Higher Council for Science and Technology (HCST) and The Support to Research and Technological Development and Innovation Initiatives and Strategies in Jordan (SRTD), Amman JORDAN
13. **IP Protection and Exploitation**, May 2010
The Higher Council for Science and Technology (HCST) in collaboration with the European Business and Innovation Centres Network (EBN), Amman JORDAN
14. **Testing and Evaluation of University Exams**, April 2010
Academic development center, Jordan University of Science and Technology, JORDAN
15. **Establishing Technology Transfer Offices in MENA Universities and Research Institutes**, April 2010
Queen Rania Centre for Entrepreneurship in collaboration with IPCO at El-Hassan Science City; Sponsored by Into-Action, Amman JORDAN
16. **Jordan Science, Technology and Innovation Observatory Workshop**, March 2010
The Higher Council for Science and Technology (HCST) in collaboration with the United Nations Economic and Social Commission for Western Asia (UN-ESCWA), RSS, Amman Jordan
17. **Research Funding Workshop**, Aug 2006
Career (Staff) development courses at CATL, UWA, AUSTRALIA

18. **Teaching and Learning Orientation**, Feb 2006
Career (Staff) development courses at CATL, UWA, AUSTRALIA
19. **Building an Academic Portfolio**, Nov 2005
Career (Staff) development courses at CATL, UWA, AUSTRALIA
20. **Laboratory Safety Course**, Jul 2005
The University of Western Australia, AUSTRALIA
21. **A thesis writing workshop**, Jun 2004
The University of Western Australia, AUSTRALIA
22. **Computer Aided Drafting / A-CAD**, Dec 1995
Southern Sydney Institute of TAFE, NSW, AUSTRALIA
23. **Confined Space; Air Trailer and Safety Course**, Nov 1994
Caltex Refining Co Pty Limited, Sydney AUSTRALIA
24. **Design Course for Building**, Dec 1992
"Central Heating and Thermal Wall Insulation" Amman, JORDAN

SOCIAL AND COMMUNITY ACTIVITIES

Academic/Administrative:

- Participating in SRTD project "Support to Research and Technological Development & Innovation Initiative & Strategies in Jordan (SRTD)". The program was funded by the European Union for a total amount of € 4 million to help the innovation and R&D sectors of the Jordanian economy. In conjunction with the Higher Council for Science and Technology (HCST) and Jordan Enterprise Development Corporation (JEDC).
- Member of Scientific Day Committee. College of Engineering JUST: Tasks include planning, inviting speakers, finding sponsors, stationary, and following up on the daily activities. JUST.
- Reviewer for research proposals: Tasks include revision and evaluation of internal and/or external research proposals, Deanship of Research, JUST.
- Member of the "School Safety Committee" of the Department of Mechanical Engineering at the University of Western Australia (2004-2006): Tasks include supervising and following up on the safety regulations of all Labs.
- Supervised several site visits to local industrial and engineering companies in Western Australia for undergraduate students (2002-current).
- Coordinate the research group's interdisciplinary activities between various departments at UWA.
- Participate in most university and department social activities, such as UWA EXPO.
- Delivered communication skills workshops to graduate students at JUST.

Community Service:

1. Member of the Arab Cultural Club, USA (1984-1986).
2. Member of Mt Hawthorn primary school parent committee, Australia (2001-2005).
3. Member of The Jordanian-Australian club WA (1998 – current).
4. Organized several sites to visit factories for undergraduate students in collaboration with the Amman Chamber of Industry, Jordan.
5. An active volunteer for community and social services at all levels.

REFEREES

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