

CURRICULUM VITAE (CV)

PROF. ABDALLAH SHANABLEH

Management Experience

- ❑ Founding Director of the Research Institute of Sciences and Engineering, RISE (9/2014-Present)
- ❑ Chairman of Department of Civil & Environmental Engineering (9/2006-9/2010)
- ❑ Chairman of Research Groups and Activities Department in the University Research and Studies Center (9/2001-2/2003)
- ❑ Chairman of the Central Consultancy and Studies Department in the University Research and Studies Center (2/2003-8/2006)
- ❑ Acting Dean (Summer 2007/2008)
- ❑ Various Leadership Roles, Including Formation and Coordination of a Research Groups
- ❑ Long Service in Key Senior Committees at the University and College levels

Establishment of the Research Institute of Sciences and Engineering (RISE)

- ❑ Direct involvement in preparation of the university research bylaws, establishing the research organizational structure, and development of institute strategic plan.
- ❑ Responsibility for establishment, funding and managing 19 Research Groups, 7 Research Centers (on-going), and 9 support research laboratories and workshops, with over 130 faculty researchers involved.
- ❑ Preparation and control of annual budgets and employment and management of over 30 research assistants, technicians, and administrative staff.
- ❑ Initiation of three interdisciplinary MSc programs
- ❑ Initiation and management of an international students' research exchange program
- ❑ Initiation of seminar series, organization of RISE research groups' forums, and a number of international conferences

Long-Term Involvement in Research Development at UoS

- ❑ Active involvement in establishing, restructuring and/or planning of the various UoS research administration entities since 2001, which are; Research and Studies Center; College of Graduate Studies and Research; and Office of the Vice Chancellor for Research & Graduate Studies and associated institutes and departments
- ❑ Drafting the first UoS research bylaws and executive research bylaws (2003-2004)
- ❑ Founding and chairing the Research Groups and Activities Department (2/2003-8/2006)
- ❑ Founding and chairing the Research and Studies Department (9/2001-2/2003)
- ❑ Initiating the research groups annual forum (2005)
- ❑ Introducing two new research grant schemes - collaborative and targeted research grants
- ❑ Active involvement in establishing the UoS Journal of Pure and Applied Sci. (2004-2006)

- ❑ Active and long involvement in the University Research Board (URB)

Significant Undergraduate and Graduate Program Development Experience

- ❑ Leading role in development of the PhD program in Civil Engineering (general framework and environmental track)
- ❑ Leading role in restructuring of the MSc program in Civil Engineering to align it with the new PhD program (general framework and environmental track)
- ❑ Development of the non-thesis MSc in Civil Engineering, offered between 2007-2013
- ❑ Development of Environ. Eng. Specialization in MSc program in Civil Eng.
- ❑ Establishment of Environmental Eng. concentration in the Civil Engineering Program
- ❑ Major restructuring of the BSc Program in Civil Engineering to meet ABET requirements
- ❑ Major restructuring of the MSc program to streamline its many specializations
- ❑ Proposed three interdisciplinary programs under RISE, which are:
 - ✓ Interdisciplinary MSc in GIS and Remote Sensing
 - ✓ Interdisciplinary MSc in Environmental Science and Technology
 - ✓ Interdisciplinary MSc in Biomedical Engineering
- ❑ Promotion of Sustainable Development Education with partners from around the world
- ❑ Development of most of the courses in the environmental engineering area in the BSc, MSc and PhD programs.

Significant National and International Program Accreditation Experience

- ❑ Significantly contributed to preparation for accreditation of the PhD program by the CAA (general framework and environmental track).
- ❑ Significantly contributed to the accreditation of the MSc program by the CAA.
- ❑ Lead the accreditation of the Civil Eng. MSc Program by the Ministry of Higher Education a Number of Times
- ❑ Lead ABET accreditation and reaccreditation of the BSc Program in Civil Engineering and coordinated ABET accreditation of two other engineering programs in the College of Engineering
- ❑ Actively participated in the accreditation of the BSc. Program in Civil Engineering by the Institution of Engineers, Australia

Significant Community Service Activity

- ❑ Foundation and organization of professional conferences (1998-Present) with a number of colleagues from the UoS, including a series of eight (8) international conferences on engineering education, 4 on sustainable development, and 4 on a variety of technical topics such as desalination, water resources management, earthquakes hazard, and civil engineering materials and systems.
- ❑ Initiation and negotiation of a number of collaboration agreements between the UoS and important local and international organizations
- ❑ Initiation and conduct of major, multimillion community service projects

Significant Research Achievements

- ❑ Maintained, despite excessive teaching load and heavy administration involvement, a reasonable research activity manifested by secured research grants and a reasonable publication record.
- ❑ Experience includes: significant publication record; significant grant record; supervision of 4 PhD students at Queensland University of Technology (QUT), Australia, and supervision of tens of MSc students at UoS and QUT.

Academic and Professional Awards and Scholarships

- ❑ Received a good number of academic and professional awards.

Collegial relations with administrators, researchers & employees at UoS

- ❑ Maintained collegial and professional relations with UoS administrators, researchers, and employees

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EDUCATION

Degree	Date	Major	Specialization	Grad. Date	GPA	University /Country
PhD	12/1990	Civil Engineering	Environmental Engineering	12/1990	4/4	University of Texas at Austin, USA
MSc	12/1988	Civil Engineering	Environmental Engineering	12/1988	4/4	University of Texas at Austin, USA
	Fall 1986/87	Civil Engineering	Water Resources Engineering	Transferred to University of Texas at Austin	4/4	Arizona State University Tempe, Arizona, USA
BSc	6/1986	Civil Engineering	Structural Engineering	6/1986	86% (Excellent)	University of Jordan Amman, Jordan

ADMINISTRATIVE APPOINTMENTS

Administration Position	Name of University	Duration	
		From	To
Director of Research Institute of Sciences and Engineering (Founding Director) Office of Vice Chancellor for Research and Graduate Studies, UoS	University of Sharjah, UAE	9/2014	Present
Department Chairman Department of Civil & Environmental Engineering	University of Sharjah, UAE	9/2006	9/2010
Acting Dean College of Engineering	University of Sharjah, UAE	Summer 2007/2008	
Department Chairman (Founding Chair) Research Groups & Activities Department University research and Studies Center	University of Sharjah, UAE	2/2003	8/2006
Department Chairman (Founding Chair) Central Research & Consultancy Department, University Research & Studies Center	University of Sharjah, UAE	9/2001	2/2003
Founder and Coordinator University of Sharjah Seismic Station	University of Sharjah, UAE	9/2006	Present
Founder and Coordinator Hazards and Engineering Risk Management Research Group	University of Sharjah, UAE	9/2006	9/2010

Research Group Leader Water/Environmental Research Group, Physical Infrastructure Research Center	Queensland University of Technology, Australia	1998	2000
Program Coordinator Graduate Program, Department of Civil Engineering	Queensland University of Technology, Australia	2000	1 Semester then Left to Sharjah
Program Coordinator Environmental Engineering Program, Department of Civil Engineering	Queensland University of Technology, Australia	1994	2000
Founder and Coordinator Environmental Engineering Concentration within Civil Engineering	University of Sharjah, UAE	9/2010	Present

ACADEMIC APPOINTMENTS

Academic Rank	Name of University	Location/ Country	Duration of Rank	
			From	To
Professor Civil/Environmental Eng	University of Sharjah	Sharjah UAE	9/2007	Present
Associate Professor Civil/Environmental Eng	University of Sharjah	Sharjah UAE	9/2000	9/2007
Senior Lecturer (Tenured)	Queensland University of Technology	Brisbane, Queensland, Australia	8/1996	Full Time 08/2000 on-Leave 12/2002
Visiting Professor	Kyoto University	Kyoto, Japan	7/1998	10/1998 Sabbatical
Visiting Scholar	University of Texas at Austin	Austin, Texas, USA	10/1998	1/1999 Sabbatical
Lecturer (Australia)- Equivalent to Assistant Professor	Queensland University of Technology	Brisbane, Queensland, Australia	7/1994	7/1996
Assistant Professor	University of Jordan	Amman, Jordan	1/1992	8/1994
Research Assistant	University of Texas at Austin	Austin, Texas, USA	1/1989	8/1990

MEMBERSHIP OF SENIOR ACADEMIC COMMITTEES

Committee	Member/ Chair	Organization	Duration of Experience	
			From	To
Deans' Council - Senior Management, University	Member	University of Sharjah	9/2017	Present
Vice Chancellor Research Executive Committee – University level	Member	University of Sharjah	9/2014	Present
Innovation Box Higher Committee - – University level	Member	University of Sharjah	9/2017	Present
Research Bylaws and VCRGS Office Organization Structure Development Committee	Member	University of Sharjah	2014/2015	
University Research Restructuring Committee	Member	University of Sharjah	2013/2014	
Faculty Performance Evaluation System Development Committee	Member	University of Sharjah	2014/2015	Present

University Academic Board	Elected Member	University of Sharjah	3/2012	12/2013
University Research Board	Member and Secretary	University of Sharjah	8/2006	9/2011
			11/2014	Present
University Graduate Studies Board	Member	University of Sharjah	9/2012	Present
ABET Accreditation Committee – Special Committee Formed by Chancellor	Chair	University of Sharjah	3/2009	9/2011
College of Engineering Board	Member	University of Sharjah	Various periods during 9/2000 to 8/2011	
College of Engineering Research Committee	Chair and Member	University of Sharjah	2/2004	5/2005
			9/2013	9/2014
Academic Promotion Committees -Department & College levels	Chair/Member	University of Sharjah	9/2006	9/2014
Department Committees Research, Teaching and Learning, Program Accreditation	Chair and Member	University of Sharjah	9/2000	9/2014
The Selby Working Group on Sustainable Development	Chair	Queensland University of Technology	9/1996	8/2000

MEMBERSHIP OF SPECIAL (Ad-Hoc) COMMITTEES

Committee Name	Role	Level	Duration
University Budget Committee for 2018/2019	Member	Senior Management, University	2018/2019
University Bank of Sharjah Research Award Committee	Chair	University	2016/2017 2017/2018
University Research Award Committee	Chair	University	2015/2016
University Committee on Integration of Research into Teaching and Learning	Chair	University	2018/2019
Management Committee of Sharjah Center for Astronomy & Space Sciences	Member	University	2018/2019
Research Consultation Guidelines Committee	Member	University	2018/2019
Commercial Testing Guidelines Committee	Member	University	2018/2019

PROFESSIONAL APPOINTMENTS

Position	Organization	Location/ Country	Duration of Experience	
			From	To
Senior Environmental Engineer	Engineering- Science, Inc.	Houston, Texas, USA	9/1990	2/1992
Project Coordinator	Arab Science & Technology Foundation	Sharjah, United Arab Emirates	2/2004	5/2005

ACADEMIC & PROFESSIONAL AWARDS

Date	Award/Scholarship Title	Granting Organization
2018	The "6th Sharjah Sustainability Award 2017-2018", Outstanding College Domain/Green Campus Category	Sharjah Environment and Protected Areas Authority, Government of Sharjah
2018	10 th Dubai Award for Sustainable Transport 2018 Best Academic Research Category	Dubai Road and Transport Authority
2016	Dubai Award for Sustainable Transport 2016 Best Academic Research Category	Dubai Road and Transport Authority
2014/2015	Merit Award for Distinction in Teaching	University of Sharjah, Sharjah, United Arab Emirates
2011/2012	Merit Award for Distinction in Teaching	
2008/2009	Merit Award for Distinction in Teaching	
2008/2009	Best Research Group Award for "Hazards and Engineering Risk Management Research Group"	
2005/2006	Merit Award for Outstanding Contributions in Teaching, Research & Service	
2001/2002	Merit Award for Distinction in Community Service	
1999	Innovation in Teaching Award Faculty of Built Environment & Engineering	
2000	2000 University Nominee for Australian National Education Award "Australian Awards for Teaching". Withdrawn nomination due to leaving and joining UoS	
1992	Engineering Performance Recognition Award	Shell Oil Company through Engineering-Science, Inc., USA
1991	Engineering Performance Recognition Award	

SCHOLARSHIPS

Date	Award/Scholarship Title	Organization
1986-1988 1988-1990	Fulbright Scholarship (Full MSc), 1986-1988 Fulbright Scholarship (Travel Only-PhD), 1989-1990	United States Information Agency
1981-1986	BSc Jordan Armed Forces Scholarship (Full Scholarship)	Jordan Army

PROFESSIONAL REGISTRATION

Professional Registration	Date
Chartered Professional Engineer (CPEng), Institution of Engineers, Australia	1995-Present
Registered Engineer, Jordan Engineers Association, Jordan	(1986-Present)

JOURNAL EDITORIAL INVOLVEMENT

Position	Organization	Duration of Experience	
		From	To
Member - Editorial Board	Journal of Desalination and Water Purification, Malaysia	6/2015	Present
Member-International Advisory Committee	Journal of Hydrology and Environment Research, Australia	4/2013	Present
Editorial Secretary - University of Sharjah Journal of Pure & Applied Sciences	University of Sharjah	2/2004	10/2006
Executive Editor Research Update Newsletter	University of Sharjah	9/2001	6/2004

TEACHING & LEARNING EXPERIENCE

Involvement in Accreditation Activities

1. **Accreditation of the Civil Eng. MSc Program by UAE Ministry of Higher Education**

(Commission for Academic Accreditation, CAA) of the Civil Engineering Program (2014-2019). As chair of the Accreditation Committee in the Department, I lead a team that prepared the accreditation self-study report for the CE program and prepared significant parts of the report. I also prepared the response to program evaluators' mandatory requirements.

2. **2nd Re-Accreditation of the Civil Eng. BSc Program by UAE Ministry of Higher Education**

(Commission for Academic Accreditation, CAA) of the Civil Engineering Program (2014-2019). As chair of the Accreditation Committee in the Department, I lead a team that prepared the accreditation self-study report for the program and prepared significant parts of the report. I also prepared the response to program evaluators' mandatory requirements.

3. **First ABET Accreditation of three BSc Programs in the College of Engineering**

I Chaired the College of Engineering ABET Accreditation Committee, which successfully secured for the first time ABET accreditation of three engineering programs for the period 2011-2017. The three programs are: (1) Civil Engineering; (2) Electrical and Electronics Engineering; and (3) Computer Engineering. As chair of the committee, I liaised with ABET organization and travelled to the USA to coordinate accreditation with the chair of the ABET accreditation team then coordinated the visiting team activities during their visit. I also coordinated the preparation of accreditation documents. As chairman of the Civil Engineering Department, I also lead preparation of the ABET self-study, which I wrote personally, then prepared all responses to ABET program evaluators.

4. **1st ABET Re-Accreditation of BSc Programs**

The department of Civil and Environmental Engineering is currently preparing for ABET-reaccreditation of its BSc. program. I am serving as department advisor and the department is updating the original ABET self-study report that I prepared back in 2011, to finalize its ABET submission. The department is also utilizing a quality assurance program that I prepared to assess achievement of outcomes of individual courses and the overall program.

5. **1st Re-Accreditation of the Civil Engineering BSc Program by UAE Ministry of Higher Education**

(Commission for Academic Accreditation, CAA) of the Civil Engineering Program (2008-2013). As chairman of department and program leader, I lead preparation of accreditation application for the CE program. I also prepared (wrote) the self-study report and all responses to program evaluators.

6. **Initial Accreditation of the Civil Engineering BSc Program by UAE Ministry of Higher Education**

(Commission for Academic Accreditation, CAA) of the Undergraduate and Graduate Civil Engineering Programs. Significant contributions to initial accreditation of BSCE and MSCE Programs at the University of Sharjah for the period 2004-2007.

7. **Accreditation of the BSc. Program by the Institution of Engineers, Australia (1998)**

Assisted in the preparations for the Accreditation of Civil Eng. Program at Queensland University of Technology, Brisbane, Australia.

Academic Program Initiatives and Development Experience

1. Currently involved in developing the PhD program in Civil Engineering in the Department of Civil and Environmental Engineering.
2. Recently proposed three interdisciplinary programs under the Research Institute of Sciences and Engineering, as follows:
 - ❑ Interdisciplinary MSc in Environmental Science and Technology (Approved)
 - ❑ Interdisciplinary MSc in GIS and Remote Sensing (Proposal being prepared for consideration by the BoT by a formal university committee)
 - ❑ Interdisciplinary MSc in Biomedical Engineering (Proposal being prepared for consideration by the BoT by a formal university committee)
3. Lead development of the MSc in Civil Engineering (Non-Thesis Option), which was offered between 2007 until 2013 to cater for the needs of professional, part-time students.
4. Developed the Environmental Engineering MSc Specialization within Civil Engineering
5. Developed the Environmental Engineering Concentration within the Civil Engineering Program
6. Lead major restructuring of the BSc Program in Civil Engineering to meet ABET requirements.
7. Lead major restructuring of the MSc program to streamline the many specialization into two major tracks; structural systems and infrastructure systems
8. Proposed establishment of Graduate Certificate and Graduate Diploma in Civil Engineering, with proposal approved at the Department and College levels then postponed by the University.
9. Developed all graduate and undergraduate courses in the environmental engineering specialization in the BSc and MSc programs
10. Developed and coordinated of the Environmental Engineering Major within Civil Engineering at Queensland University of Technology, Australia.
11. Lead the development of an On-Line Teaching & Learning Database Resource titled "The Selby Resource Collection on Sustainable Development" at Queensland University of Technology, Australia.
12. Involvement in major educational development projects funded by the European Union:
 - ❑ Project 1: Promotion of Sustainable Development in Higher Education, which involved the following universities (Total Funding approx. 2,000,000 AED): University of Sharjah, UOS, United Arab Emirates; Addis Ababa University, AAU, Ethiopia; Anton de Kom Universiteit, UVS, Suriname; Kiev Polytechnic Institute, KPI, Ukraine; Royal Institute of Technology, KTH, Sweden; Sekem Development Foundation, SEKEM, Egypt; Technische Universiteit Delft, TU Delft, Netherlands; Universitat Politècnica de Catalunya, UPC, Spain; and Universiti Sains Malaysia, USM, Malaysia.
 - ❑ Project 2: Quality Assurance in Engineering Education and Program Linkages, which involves other colleagues from the UoS, including the VCRGS. The project is a partnership between the following two universities (Total Funding: 600,000 AED) University of Sharjah, UOS, United Arab Emirates; and Royal Institute of Technology, KTH, Sweden.
13. Development of an Excel-Based Tool to Assess Achievement of CLO, Align T&L with CLO, and Demonstrate Achievement of SOs: The system is used by all faculty members in Department to assess alignment of courses with courses learning outcomes as well as program students' outcomes. The system is successfully used to compile assessment results demonstrating compliance with ABET & CAA accreditation requirements.
14. Initiated and Lead the Development of the Current Civil Engineering Curriculum: The current Civil Engineering curricula is based on the major modifications introduced in preparation for CAA and ABET accreditation. Significant contributions to the development of the modified curricula to meet the CAA/ABET requirements were achieved

Courses Developed/Taught/Coordinated	University	Course Type		
MSc Thesis Supervision	University of Sharjah	Graduate		
Wastewater Treatment & Reuse				
Environmental Impact Assessment and Risk Analysis				
Unit Operations in Environmental Eng				
PhD Thesis	Queensland University of Technology	Graduate		
MSc Thesis				
Waste Management				
Public Health Engineering Practice				
Advanced Wastewater Treatment				
Water Quality Engineering				
Studies in Environmental Engineering				
Graduate Project				
Unit Operations in Water and WW Treatment	University of Jordan	Graduate		
Physio-Chemical Treat of Water and Waste				
Special Studies-Environ Impact Assessment				
Special Studies-Industrial Waste Management				
Introduction to Environmental Engineering	University of Sharjah	Under-graduate		
Sustainable Design and Construction				
Environmental Friends and Volunteers				
Man and Environment				
Special Studies in Water Resources/Environmental Engineering				
Environmental Outreach Project				
Water Resources Engineering				
Hydraulic Engineering				
Fluid Mechanics				
Water and Wastewater Treatment				
Mechanics of Materials				
Senior Design Project - I				
Senior Design Project - II				
Individual Graduation Project				
Drinking Water Engineering			University of Jordan	Under-graduate
Wastewater Engineering				
Sanitary Systems Design				
Environmental Analysis Laboratory				
Final Year (Graduation) Project				
Environmental Science (Ecology, Microbiology, Chemistry)	Queensland University of Technology	Under-graduate		
Environmental Technology				
Public Health Engineering I				
Public Health Engineering II				
Professional Environmental Studies				

Courses Developed/Taught/Coordinated	University	Course Type
Water & wastewater Systems		
Civil Engineering Design (Senior)		
Environmental Engineering Design (senior)		
Waste Management		
Final Year (Graduation) Project		

Newly Courses Proposed	University	Course Type
Membrane and Desalination Technologies	University of Sharjah	PhD (Environmental)
Geo-Environmental Engineering		
Air Quality Engineering		
Remote Sensing for Environmental Monitoring		
Advanced Studies in Environmental Engineering		
Physiochemical Treatment Processes	University of Sharjah	MSc (Environmental)
Experimental Research in Environmental Engineering		
Sustainable Infrastructure Design and Construction	University of Sharjah	MSc (Infrastructure)
Assessment and Rehabilitation of Water and Wastewater Systems		
Senior Research Project Part 1 (1 Credit)	University of Sharjah	BSc (Civil Engineering)
Senior Research Project – Part 2 (2 Credits)		

Professional Training Courses Delivered
<ul style="list-style-type: none"> ❑ Environmental Impact Assessment and Risk Analysis: Center for Continuing Education and Community Service, University of Sharjah. ❑ Project Management: Conducted through the Consultancies and Studies Center, University of Jordan. ❑ Indoor Air Pollution: Prepared for the World Health Organization Regional Office, Amman-Jordan. ❑ Design of Water Supply Systems: Prepared for the World Health Organization Regional Office, Amman-Jordan. ❑ Operation and Maintenance of Activated Sludge and Waste Stabilization Pond Systems. Prepared for the World Health Organization Regional Office, Amman-Jordan. ❑ Water supply Systems - Leakage Detection and Control. Prepared for the World Health Organization Regional Office, Amman-Jordan. ❑ Sustainable Operation and Maintenance of Rural Water Supply and Sanitation Systems. Prepared for the World Health Organization Regional Office, Amman-Jordan.

PROFESSIONAL ACTIVITY

Founding and Organization of International Forum on Engineering Education

I founded, with support from a few of my colleagues at UoS, the "International Forum on Engineering Education (IFEE)" in 2001 to bring together educators, researchers, students, professionals, employers, policy and decision makers and other stakeholders to contribute to the advancement and enrichment of engineering education, research and practice, especially in the middle east region. The IFEE was also intended to promote engineering education as an area of scholarship in the region.

Six of the past seven IFEE events were hosted by the University of Sharjah in the UAE and one was hosted by the National University of Malaysia in Kuala Lumpur in 2012. The past IFEE events were organized under the following themes:

- ❑ 1st IFEE: The Changing Role of Engineering Education in the Information
- ❑ 2nd IFEE: Generic Attributes in Undergraduate Engineering Education - Issues and Development.
- ❑ 3rd IFEE: Building Partnership with Government, Industry & Society.
- ❑ 4th IFEE: Integration of Teaching and Research with Community Service.
- ❑ 5th IFEE: Engineering Education in the 21st Century - Quality, Globalization and Local Relevance. The IFEE2010 was held jointly with the European SDPromo Conference on Sustainability in Higher Education.
- ❑ 6th IFEE: Collaborative Approaches in Science, Built Environment and Engineering Education, Research and Practice. Kuala Lumpur, Malaysia
- ❑ 7th IFEE: Quality Assurance in Engineering Education. Jointly with the 3rd International Conference: "Towards Sustainable Development - Sustainability in Built Environment and Engineering Education, Research and Practice". 17-19 March, 2015, Sharjah, United Arab Emirates
- ❑ 8th IFEE: (April 2017): Advances in Engineering Education, UoS, Sharjah, UAE.

Founding and Organization of International Conference Towards Sustainable Development

In 2010, I launched the "Towards Sustainable Development" conference as a joint event with the International Forum on Engineering Education. So far, three TSCIC were held jointly with the International Forum on Engineering Education, and the 4th has been announced, as follows:

- ❑ 1st ICTSD2010 "European SDPromo Conference on Sustainability in Higher Education".
- ❑ 2nd ICTSD2012 "Sustainability in Built Environment and Engineering Education, Research and Practice".
- ❑ 3rd ICTSD2015 "Sustainability in Built Environment and Engineering Education, Research and Practice".
- ❑ 4th ICTSD2017 (Announced for April 2017) "Educating Engineers for Sustainability".

Other Professional Conference and Events Organized/Being Planned

1. International Conference on Sustainable Development, "Shaping the Sustainable Millennium-- Collaborative Approaches", 5-7 July 2000, Brisbane, Australia.
2. International Conference on "Water - Resources, Technologies and Management in the Arab World", 8-10 May 2005, Sharjah, United Arab Emirates
3. International Symposia, "Seismology & Earthquakes in the Arabian Gulf", 2-4 February 2004, Sharjah, United Arab Emirates.
4. International Symposia on "Water Desalination & Purification Technology Outlook for the Arab World", 29 May-1 June, 2004, Marrakech, Morocco (Jointly between the University of Sharjah and the Arab Science and Technology Foundation).

5. Internal Research Group Forum, as part of the 1st and 2nd Annual University Research Forums (2005 and 2006).
6. ASCMCES2017 (Announced for 2017): International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems.

UOS COLLABORATION AGREEMENTS INITIATED/NEGOTIATED/UNDER DEVELOPMENT

Through the years and with approval of senior administration, I have initiated and negotiated a number of collaboration agreements. Below is a summary of these organizations:

SN	Organization(s)	Agreement Type	Areas of Collaboration
1	Environment and Protected Areas Authority, Sharjah Government	Collaboration Agreement (MoU) signed 2004	Collaboration in the Area of Environmental Protection in Sharjah. Specific Projects included: remediation of the Sharjah Old landfill; Integrated Solid waste Management System for Sharjah; and Water Quality Monitoring in the Coastal Areas.
2	University of California San Diego, USA, and Incorporated Research Institutions for Seismology, USA	Collaboration Agreement (MoU) signed 2005 by the Chancellor and Endorsed by H.H.	Joint Establishment and Operation of the University of Sharjah Station (UoSS) as part of the Global Seismographic Network (GSN) and as part of the Indian Ocean tsunami early warning System.
3	University of California at San Diego	Collaboration Agreement (MoU) signed 2004	Research collaboration and exchange of researchers in all areas, especially geological and marine sciences.
4	Mohammad Bin Rashid Center for Space Sciences	Collaboration Agreement (MoU) signed 2015	Collaboration in the areas of research, exchange of data and information, training, education and provision of opportunities for UoS students.
5	National Center for Meteorology and Seismology, UAE Ministry of Interior	Collaboration Agreement (MoU) under Development	Collaboration in the areas of applied research, training, exchange of data, and joint studies and potential joint installation and operation of a seismic network in Sharjah.
6	Royal Institute of Technology, Sweden	Collaboration Agreement (MoU) being negotiated	Collaboration in the areas of education, research, joint programs, and exchange of faculty and students.
7	Renewable Energy Development Center, Algeria	Collaboration Agreement (MoU) Under Development	Research collaboration in the areas of renewable energy and wastewater and wastewater treatment and reuse.
8	Ajman Municipality	Collaboration Agreement (MoU) Under Development	Collaboration in the area of infrastructure development and maintenance and GIS-based data exchange.
9	Other Involvement in Developing Collaboration with external Organizations, including: Sharjah Electricity & water Authority; Desert Research Institute; and Sharjah Research Academy		

LOCAL COMMUNITY SERVICE PROJECTS

1. **Establishment of the University of Sharjah Seismic Station**

(UOSS) at Wadi- Al Helo (a location proposed and allocated by His Highness the Ruler of Sharjah) as part of the Global Seismographic Network (GSN). This initiative resulted through contacts with colleagues at the University of California at San Diego (UCSD). The project gained support from the University and from His Highness and included the UoS a member of an international consortium of universities and organizations collaborating on seismology. It also put Sharjah on the scientific map for monitoring earth movements. The UOSS provides critical information to local and international researchers and scientific organizations dealing with earthquake hazards and provides information to help speed up help to areas most affected by earthquakes. Likewise, the data is made available to the Indian Ocean Tsunami Warning Centers to help issue a tsunami warning to countries near the Indian Ocean.

2. **Remediation of the Old Sharjah Waste Disposal Site**

Initiated this project upon joining the university to solve a major environmental problem next to the University of Sharjah. This work was coordinated with the Environmental Authority and with the Sharjah Municipality. In response, the Executive Council of the Government of Sharjah formed a joint University-Government Higher Committee for Waste Management in Sharjah (in which I served as a member representing the Chancellor) to oversee the process. I then formed and lead a team which studied the site and issued recommendations to His Highness the Ruler of Sharjah and to the Government of Sharjah and the main recommendation to clean and rehabilitate the site was accepted and is being implemented.

3. **Integrated Waste Management System for Sharjah City**

This work was commissioned by the Higher Committee for Waste Management in Sharjah in 2001. The work, which I lead with a team from the UoS and the Environment Authority, involved assessment of existing waste management practices and infrastructure in Sharjah, conducting remedial investigations of two major contaminated sites, identification of needed facilities, infrastructure, and training, preliminary design of facilities, preparing contract documents, and pre-qualifying consultants and contractors.

4. **Establishment of the Sharjah Coastal Areas Management Program**

This program was developed jointly with the Environment and Protected Areas Authority in Sharjah in 2000. The program was formalized through signing a Memorandum of Understanding (MoU) between the Environment and Protected Areas Authority and the University. The work involved routine monitoring and reporting on water quality in the Coastal Areas in Sharjah and issuing appropriate recommendations to manage the water quality and sediments, especially in Khalid and Al-Khan coastal lagoons.

BRIEF DESCRIPTION OF SELECTED PROFESSIONAL EXPERIENCE

1. **Senior Environmental Engineer, Engineering-Science, Inc., Houston, USA (1990-1992)**

This professional appointment involved work on a wide range of projects. Main project experience involved design of a U\$35 Million wastewater treatment plant for a petrochemical industry. The work also included pollution prevention studies, waste minimization studies, and toxicity reduction studies. The work involved field investigation of various environmental problems, contaminated site remediation feasibility studies, contaminated groundwater treatment studies, design of pipes and hydraulic structures, field survey work, wastewater treatability studies, field sampling and analysis, and property transfer studies. The work involved project, budget and team management, marketing, preparing reports and budgets, presentations to clients and client liaison.

2. **Project Coordinator “Water Desalination & Purification Technology Outlook for the Arab World”, Arab Science & Technology Foundation (2004-2005)**

This is a pan-Arab project involving developing a roadmap for Water Desalination & Purification Technologies targeting effective involvement and participation of Arab Research Organizations and Businesses in international efforts focused on developing such technologies. The project has received funding and support from various Arab government and non-government organizations who nominated over 150 experts to participate in the project.

3. **Investigation and Supervision of Remediation of the Sharjah Old Landfill (2001-2006)**

Initiated this project upon arrival at the UOS to solve a major environmental problem next to the University of Sharjah. This work was coordinated with the Environmental Authority and The Sharjah Municipality. In response, the Executive Council of the Government of Sharjah formed a joint University-Government Higher Committee for Waste Management in Sharjah to oversee the process. I then formed and lead a team which studied the site and issued recommendations to His Highness the Ruler of Sharjah and to the Government of Sharjah and the main recommendation to clean and rehabilitate the site was accepted and is being implemented with a total cost of more than AED100 Million.

4. **Development of Integrated Waste Management System for Sharjah (2001-2006)**

This work was commissioned by the Higher Committee for Waste Management in Sharjah in 2001. The work involved assessment of existing waste management practices and infrastructure in Sharjah, remedial investigation of two contaminated sites, identification of needed facilities, infrastructure, and training, preliminary design of facilities, preparing contract documents, selection of consultants and contractors, and supervision of field work.

5. **Water Quality Monitoring & Management of Coastal Areas in Sharjah (2000-2006)**

This project was developed jointly with the Environment and Protected Areas Authority in Sharjah in 2000. The program was formalized through signing a Memorandum of Understanding (MoU) between the Government and University. The work involved routine monitoring and reporting on water quality in the Coastal Areas in Sharjah and issuing appropriate recommendations to manage the water quality and sediments.

6. **Potential for Development of Eco-Industrial Parks in South East Queensland (1999-2001)**

This project was funded by and involved a consortium of government and private organizations, including: (1) Queensland Environmental Protection Agency; (2) Queensland Department of Economic Development and Trade; (3) Queensland Department of Tourism, Small Business and Industry; (4) The Australian Research Council; (5) Brisbane City Council; (6) Caboolture City Council; (7) Ipswich City Council, and (8) the Australian Research Council. The project aimed at developing a policy framework for encouraging sustainable industrial development and industry guidelines for planning industrial zones, pollution prevention and control, waste minimization, waste exchange, life cycle analysis, and environmental management. Significant achievements were made, including two massive surveys of industrial parks in South East Queensland.

7. **WHO Appropriate Technology for Water Supply and Sanitation for Jordan (1992/1993)**

This consulting project involved a country study and was funded by the World Health Organisation (WHO). The project involved work with various government departments in Jordan and involved a survey of the country's situation in regards to water supply and sanitation programs, including issues such as legislation, organizational structure, need of institutional build-up and training, health education, and community involvement and awareness building. The study also involved developing selection criteria for appropriate technologies and identifying a range of appropriate technologies and operational strategies. The findings of the study were summarized in the following report: Shanableh, A (1993) "Appropriate Technology for Water Supply and Sanitation for Jordan". Report submitted to the WHO, Regional Office for the Mediterranean.

8. **Sustainable Residential Development-Guidelines and Applications (1998-2000)**

This project was funded by Queensland University of Technology and supported, in kind, by Brisbane City Council. The project involved developing a residential development at a site nominated by Brisbane City Council in Brisbane to demonstrate the concepts and practice of Ecologically Sustainable Developments. The following criteria were considered in the design: site constraints and potential; need for project; subdivision design issues; housing design, materials, appliances, and landscaping issues; energy management issues; transportation issues; water and wastewater management issues; storm water management issues; solid waste management issues; marketing issues; and education & community participation issues. These issues were considered in the context of achieving the objectives of sustainability.

9. **Water Supply and Sanitation for Vietnamese Fishing Villages (1999)**

This project was conducted in Australia and Vietnam. The project was funded by Australia's Aid Agency (Aus-Aid), a grant from the Queensland University of Technology, and generous private donations. The project also involved the Australian Veterans Vietnam Reconstruction Group (AVVRG, NGO) and the Australian Diplomatic mission in Vietnam. This project involved providing water supply and sanitation facilities at selected fishing villages in southern Vietnam, training on proper fish farming practices to maintain water quality and increase production, and conducting , and conducting public health education programs for children, women, men, and community leaders. As a result, there are thousands of villagers benefiting from the water supply, sanitation facilities provided and the educational programs.

10. **Case Studies on Sustainable Development for Business and Industry (1996)**

This project was funded by Queensland Department of Tourism, Small Business and Industry and involved developing case studies to help Queensland business and industry meet the Australian Strategy on Ecologically Sustainable Development. The case studies were widely publicized and summarized in the following report: Shanableh, A (1996) "Case Studies on Sustainable development for Business & Industry". Report Submitted to Queensland Department of Tourism, Small Business and Industry.

11. **Appropriate Technology for Sanitation in Remote Aboriginal Communities (1999)**

This project was setup as a graduate project and was supported by OVERUP, a local engineering consultant. Using field investigations and surveys, the study considered how the unique culture and natural and built environment characteristics of remote Aboriginal communities affected the need, selection, design, and maintenance of sanitation systems. The study emphasized: (1) the selection and design of technology that is compatible with the community's culture and environment; (2) the need for good communication between the community and the technical experts; and (3) the importance of involving the community in the various aspects/phases of the project.

SUPERVISION OF PhD STUDENTS

#	Topic/Title	Student	Thesis Type	Completion Date	Organization
1	Hydrothermal Production of VFAs from Sewage Sludge to Support Biological Nutrient Removal	Dr. Samir Jomaa	PhD	2001	Queensland University of Technology
2	Nitrogen and Phosphorus Transformations in Biofilters Subjected to Aeration/Non-Aeration Cycles	Dr. Amal Hijazi	PhD	1998	
3	Decontamination of Biosolids for Land Application	Dr. Pushpa Ginige	PhD	1998	
4	Application of Biofilm Reactors for Biological Nutrients Removal in Aquaculture	Dr. Dilrika Abeysinghe	PhD	1995	

SUPERVISION OF MASTER STUDENTS (RESEARCH ONLY)

#	Topic/Title	Student	Thesis Type	Completion Date	Organization
5	Hydrothermal Decomposition and Oxidation of the Organic Component of Dairy, Wood and Sludge Waste Streams and Treatment Impacts on Anaerobic Gas Production	Mr. Wael Khalil	MEng	2001	Queensland University of Technology
6	Risk-Based Approach to Managing Hazardous and Non-Hazardous Freight	Mr. Yu Sun	MEng	2002	
7	Potential for the Development of Eco-Industrial Parks in South East Queensland	Mr. Faran Rahmanian	MEng	2002	

SUPERVISION OF MASTER STUDENTS

#	Topic/Title	Student	Thesis Type	Completion Date	Organization
8	Wastewater Treatment Using nanoclays	Ghadeer AlKhyat	MSc Thesis	2017/2018	University of Sharjah
9	Spatio-Temporal Analysis of Urban Growth and its Impact on Surface Runoff in the City of Ajman/UAE	Zalfa Abdallah Boharoun	MSc Thesis Co-Supervisor with Dr. Rami Al-Ruzouq	2017/2018	
10	Experimental Analyses and Comparative Life Cycle Assessment of Select Dairy Waste Management Technologies	Mohamad Kamil Adghim	MSc Thesis Co-Supervisor with Dr. Mohamed Abdallah	2017/2018	

#	Topic/Title	Student	Thesis Type	Completion Date	Organization	
11	Hydrodynamic and Water Quality Modeling of Sharjah Coastline	Ahmed Aboukwik	MSc Thesis Co-supervisor with Dr. Mohsin Siddique	2016/2017		
12	Biofuel Generation from Locally Grown Algae	Nuha Adam	MSc Thesis	2016/2017		
13	Geotechnical Mapping of seismic risk of Sharjah City, United Arab Emirates	Samar Ibrahim	MSc Thesis Co-Supervisor with Dr. Maher Omar	2015/2016		
14	Modeling and mapping Traffic Noise in Sharjah, UAE	Mohammed Khalil	MSc Thesis	2015/2016		
15	Impact of Date Palm Seed on Biogas Production from Sewage Sludge	Wameed Radeef	MSc Thesis	2014/2015		
16	Phosphorus Removal from Water Using Modified Clays	Ghada Enshasi	MSc Thesis	2014/2015		
17	A Framework for Transportation of Hazardous Materials Using Fuzzy Logic	Rulla Saad	MSc Thesis	2014/2015		
18	Multi-Objective Risk-Based Traffic Routing	Iyad Shanoun	MSc Thesis	2013/2014		
19	Strength of Sedimentary Rocks in United Arab Emirates	Hussein Saleh	MSc Thesis	2013/2014		
20	Impact of Sonication on Biogas Production from Locally Available Organic Feedstock	Omar Habouch	MSc Thesis	2012		
21	A Framework for Seismic Fragility Assessment of Model Buildings in Sharjah, UAE	Khadder Abu-Dagga	MSc Thesis	2009		
22	Recycling of Demolition Waste- A Study from Abu Dhabi, United Arab Emirates	Basil Amer	Research Project	2011		
23	Improving Manpower Productivity in Construction by Using a Scheduled Lump Sum Overtime Hours	Khalid Alhaj Hamed	Research Project	2010		
24	Modification of the Swelling Characteristics and Phosphorus Retention of Bentonite Clay Using Alum	Marwan El-Fatih	Research Project	2007		
25	Influence of Local Soil Conditions on Ground Response During Earthquakes (Co-Supervisor)	Mohsin Balwan	Research Project	2007		
26	Wastewater Treatment and Nutrient Removal in a Fixed Film System	Mr. Ziad Qarri	MEngSc	2000		Queensland University of Technology
27	A Study of the Effects of Cycle Duration on the Nutrients Removal in a Fixed Film System	Mr. Hans Dalen	MEngSc	2000		

#	Topic/Title	Student	Thesis Type	Completion Date	Organization
28	Hydrothermal Destruction of Sludge, Milk and Wood Wastes	Brendan Trebilco	MEngSc	2000	
29	Risk Assessment of Road Based Dangerous Goods Transport	Mr. Joseph Mendis	MEngSc	2000	
30	Water Quality Due to Road Construction – Case Study on the Pacific Motorway (Logan Motorway to Pappas Way, Neragng, Qld)	Mr. Trevor Sullivan	MEngSc	1999	
31	Advanced Wastewater Treatment – Biofilter Performance and Other Fixed Film Systems	Mr. John Bower	MEngSc	1999	
32	A Review of Performance, Efficiency and Maintenance Requirements for Brisbane City Council Gross Pollutant Devices	Mr. John Kakourakis	MEngSc	1998	
33	The Effect of Proposed Legislation on the Generation of Clinical and Related Waste in Tertiary Health Care Facilities in Queensland	Miss Sarah Fenaughty	MEngSc	1998	
34	Effluent Reuse for Irrigation in Boonah Shire	Mr. John Harris	MEngSc	1998	
35	Appropriate Sewage Sludge Disposal Options for Local Governments in Southeast Qld	Mr. Parma Nand	MEngSc	1997	
36	Water Quality Modeling within Potable Water Distribution Systems	Miss Nicole Davies	MEngSc	1997	
37	Phosphorus Removal in Biological Nitrogen Removal Wastewater Treatment Plant in Carole Park	Mr. Jay Tennakoon	MEngSc	1997	
38	Optimization of Water Supply Focusing on the Incorporation of Energy Management into Planning, Design and Operation	Mr. Mario Brischetto	MEngSc	1996	
39	Use of Wetlands as a Storm Water Management System	Mr. Darryl Hayter	MEngSc	1995	
40	Appropriate Sanitation Technologies for Remote Aboriginal Communities	Kirsten Bell	MEngSc	1995	

GRANTS AND FUNDING

Type	Project Title	Granting Organization	Investigators/ Partners	Dates
Res	Evaluation and development of gray water reuse and policy development	Sharjah Electricity & water Authority	Shanableh, A, M. Abdallah, T. Merabtene and M. Siddique	2017/2018- Present
Res	Biogas Production Potential from Manure Produced by Al-Rawabi Dairy Company	Al-Rawabi Dairy Company	A. Shanableh, M. Abdallah and Ch. Ghenai	2016/2017 2017/2018
Res	Additional Treatment and Reuse of Effluents From Al-Saja'a Waste Water Treatment Plant	University of Sharjah Sharjah Research Academy Municipality of Sharjah	Shanableh (Principal), M. Abdallah, Researchers from SRA and SM	2017/2018- Present
Res	Digital Mapping of groundwater potential zones in Sharjah/UAE using remote sensing data and GIS.	Sharjah Electricity & water Authority - Being Negotiated	R. Al-Ruzouq, A. Shanableh, T. Merabtene, M. Siddique	2017/2018- Present
Res	Assessment of water demand and consumption patterns for residential and public purposes and measures to rationalize and conserve water	Sharjah Electricity & water Authority - Being Negotiated	T. Merabtene, M. Siddique and A. Shanableh	2017/2018
Res	Assessment of Groundwater Resources in Sharjah using Geographic Information System and Remote Sensing: Storage, Retrieval and Monitoring of Groundwater	Sharjah Electricity & water Authority - Being Negotiated	Rami Al-Ruzouq, Abdallah Shanableh, Tarek Merabtene, Mohsin Siddique	2017/2018
Res	Hydrodynamic Modeling of Al-Hamrya Lagoon and Desalination Plant Intake	Sharjah Electricity & water Authority - Being Negotiated	M. Siddique, Shanableh, A	2017/2018
Res	Experimental Assessment and Life Cycle Analysis of State-of-the-art Manure Management Technologies in the UAE	University of Sharjah	Abdallah, M., Shanableh, A.	2018- Present
Res	Continuous Pilot-scale Operation of Microbial Fuel Cells for Simultaneous Energy Production and Wastewater Treatment under Realistic Operating Conditions	University of Sharjah	Abdallah, M., Shanableh, A.	2017- Present
Res	Advanced Characterization of Dynamic Soil Properties in UAE for Enhanced Civil Infrastructures Design	University of Sharjah	Omar, A., Shanableh, A., Tahmaz, A., Zeiada, W.	2017/2018

Res	Management of Load Transfer to Underground Structures by Using Geocell Soil Reinforcement	University of Sharjah	Omar, A., Shanableh, A., Tahmaz, A., Zeiada, W.	2016/2017 2017/2018
Res.	Inhibition of Biogas Production from Sewage Sludge Co-Digested with Date palm Seeds and Antibacterial and Anticancer Characteristics of Date Seed Extracts	University of Sharjah	Shanableh, A., Semreen, M., Saadoun, I., Radeef, W.	2015/2016 2016/2017 2017/2018
Res	Influence of Particle Morphology on Strength Properties of UAE Carbonate Sands	University of Sharjah	M Omar, A. Shanableh, A. Tahmaz	2016/2017 2017/2018
Res	Modelling and Mapping of Road Traffic Noise in Sharjah City	University of Sharjah	K. Hamad, A. Shanableh, H. Mehdi	2016/2017 2017/2018
Res.	Emerging Contaminants in Wastewater Reuse in The Emirate of Sharjah (Under Consideration)	UoS, UAE Desert Research Institute, USA Sharjah Research Academy, UAE	A. Shanableh, M. Semreen, L. Semrejjan, Researchers from DRI, USA	2015/2016 2017/2018
Res	Development of Intensity-Duration-Frequency relationship for Sharjah city under changing climate	University of Sharjah	Siddique, M Merabtene, T. Shanableh, A. Al-Ruzouq, R.	2015/2016 2016/2017
Res	Estimation of Earthquake Hazard in Sharjah (Collaborative research grant)	University of Sharjah	Barakat, S. Altoubat, S. Maalej, M. Leblouba, M. Omar, M. Shanableh, A.	University of Sharjah
Res in T&L	Quality Assurance in Engineering Education and Programs Linkages between University of Sharjah, UAE and Royal Institute of Technology, Sweden.	The Swedish Foundation for International Cooperation in Research and Higher Education	A. Shanableh, M. Bettayeb, M. Omar, K. Hamad	2015/2016 2016/2017
D	Establishment of the University of Sharjah Seismic Observatory	University of California at San Diego, Office of His Highness, Ruler of Sharjah, and UoS	A. Shanableh P. Davis	2005-2010
Res. in T&L	Promotion of Sustainable Development Education (SDPRomo)	European Union	Universities from Europe, Africa, and Asia and South America	2008-2012
Res.	Sea water intrusion and the effects on groundwater quality and desalination processes considering the effects of climate change and sea level rise	British Council	M. Omar, A. Shanableh, T. Merabtene, T. with Colleagues at Exeter, UK	2009-2011
Res.	Earthquake Hazard Zoning and Assessment in the UAE—Structural, Geotechnical and Environmental Risk	University of Sharjah + Jordan University for Science and Technology	Barakat, S., A. Shanableh, M. Omar & A. Malkawi	2004-2007

Res.	Bio-Availability of Organic By-Products Generated from Waste Using Hydrothermal Treatment	University of Sharjah	A. Shanableh	2000-2004
Res.	Base-Line Assessment of Water Quality & Circulation Patterns in Khalid and Khan lagoons	University of Sharjah + Environment & Protected Areas Authority	A. Shanableh et al.	2000/2001
STD Y	Water Quality Monitoring in Khalid and Khan lagoons	University of Sharjah of Sharjah + Environment & Protected Areas Authority	A. Shanableh, M. Omar, et al.	2001-2007
STDY	Investigation of the Sharjah Old Waste Disposal Site	Municipality of Sharjah + Environment & Protected Areas Authority +University of Sharjah	A. Shanableh, M. Omar, et al.	2000-2002
STD Y	A Comprehensive waste Management System for Sharjah	Municipality of Sharjah + Environment & Protected Areas Authority + University of Sharjah	A. Shanableh, M. Omar, et al.	2000-2003
Res.	Bio-availability of Hydrothermal Organic Products from Sludge for Enhancing Biological Phosphorus Removal	Australian Research Council, Australian Government	A. Shanableh	2000
D	Packaged Trickling Filter Biological System for Wastewater Treatment	Enviro-Technologies, Pty Ltd	A. Shanableh	1999
Res.	Segregated Biological Nitrogen and Phosphorus Removal in Biofilters	Australian Research Council, Australian Government + Office of Research, Queensland Uni of Technology	A. Shanableh	1999
Res.	Recycling Organic Resources from Waste Products Using Hydrothermal Treatment	Queensland University of Technology	A. Shanableh	1999
T&L	Teaching & Learning Project on Storm Water Reuse & Landscaping in a Sustainable Water Cycle	Queensland University of Technology	G. Lawson A. Shanableh & B. Lim	1999
T&L	Teaching & Learning Project - Developing a Multi-disciplinary Project-Based T&L Resource on Sustainable Residential development	Faculty of Built Environment & Engineering, Queensland University of Technology	A. Shanableh & B. Bajracharya	1999
Res.	Combined Sludge Destruction and Volatile Fatty Acids Production for Biological Nutrient Removal	Australian Research Council, Australian Government	A. Shanableh	1998
Res.	Creating a Framework for Industrial Ecology in South East Queensland	Australian Research Council, Australian Government + Various Private & Government Organizations	B. Roberts A. Shanableh & B. B. Lim	1998

Res.	Hydrothermal Production of Volatile Fatty Acids from Sludge for Biological Nutrients Removal	Loganholme City Council, Queensland, Australia	A. Shanableh	1998
Res.	Developing a Supercritical Reactor Model for Waste Management & Industrial Applications	Office of Research, Queensland University of Technology	A. Shanableh	1997 for 2 years
Service	Solving Drainage, Water, and Sanitation Problems in Vietnamese Villages	Queensland University of Technology, Australia	K. Gow A. Shanableh & J. Liston	1997 for 2 years
T&L	Development of the Selby Teaching and Research Resource Collection on Sustainable Development	Dean's Office, Faculty of Built Environment & Engineering, Queensland University of Technology	A. Shanableh B. Bajracharia J. Priorior M. Gould	1996-2000
Res	Bioleaching of Metals from Contaminated Soils	Office of Research, Queensland University of Technology	A. Shanableh	1996 for 2 years
STD Y	Case Studies on Sustainable Development for Business and Industry	Queensland Department of Business, Industry and Regional Development	A. Shanableh	1996 for 2 years
Res	Enhancement of Municipal Wastewater Effluents Using the Lime/Solar Waste Brine Process.	Queensland Foundation for Local government Engineering	A. Shanableh	1995 for 2 Years
STD Y	Assessment and Enhancement of Indoor Air Quality	Sheraton Mirage, Gold Coast	A. Shanableh	1995
Res.	Contaminants Preventing Water Reuse in Jordan & Syria	European Community, University of Jordan, Damascus University, Technical University of Denmark	A. Shanableh as Member of Team	1994 for 3 years
Res.	Wastewater Reuse Opportunities in Jordan	United States Agency for International Development (USAID), University of Jordan, Washington State University	A. Shanableh as Member of Research Team	1993 for 3 Years

LIST OF PUBLICATIONS

Edited Books

1. Shanableh, A. et al. (Eds.). "Advances in Engineering Education". Publisher: University of Sharjah, ISBN: 978-9948-24-127-0 (2018)
2. Shanableh, A. M. Maalej, S. Barakat, M. Omar, S. Al-Toubat, R. Al-Ruzouq and K. Hamad (Eds.) Book of Proceedings of the International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17), Sharjah, United Arab Emirates, April 18-20, 2017, MATEC Web Conf., Vol. 120, (2017)
3. Shanableh, A. et al. (Eds.). "Quality Assurance in Engineering Education". Publisher: University of Sharjah, ISBN: 978-9948-10-122-2 (2016)
4. Shanableh, A. et al. (Eds.) Engineering Education in the 21st Century - Quality, Globalization and Local Relevance, Publisher: University of Sharjah, ISBN: 9948-10-098-0 (2013).
5. Shanableh, A. (Ed.). "Integrating Sustainable Development in Higher Education", Publisher: University of Sharjah, ISBN: 9948-10-89-1, (2012).
6. Shanableh et al.(Eds.) Integrating Teaching and Research with Community Service. Publisher: University of Sharjah., (2009).
7. Shanableh, A. and Chang, W. (Eds.) "Towards Sustainability in the Built Environment", Publisher: Queensland University of Technology, Brisbane, Australia, ISBN: 1 86435 489 5, (2001).
8. Shanableh, A. et al. (Eds.) "Towards Sustainable Development – Collaborative Approaches in Built Environment and Engineering Education", Publisher: Queensland University of Technology, Brisbane, Australia, ISBN 1 86435 492 5, (2000).

Book Chapters

9. Shanableh A., Al-Ruzouq R. and Al-Khayyat G. (2019-In Press). Assessing the Spatial and Temporal Capacity of a Semi-Enclosed Gulf to Absorb and Release CO₂ Using GIS and Remote Sensing. . In: Pradhan B. (eds) GCEC 2017. Lecture Notes in Civil Engineering, vol 9. Springer, Singapore, DOI. 10.1007/978-981-10-8016-6_81. Scopus
10. Omar, M., Shanableh, A. et al. (2019-In Press) Geotechnical Mapping of Seismic Risk for Sharjah City, United Arab Emirates. In: Pradhan B. (eds) GCEC 2017. GCEC 2017. Lecture Notes in Civil Engineering, vol 9. Springer, Singapore, https://doi.org/10.1007/978-981-10-8016-6_83.Scopus
11. Al-Ruzouq, R., Hamad, K., & Shanableh, A. (2017). Spatiotemporal Analysis and Image Registration for Studying Growth of Transportation Infrastructure in Sharjah City, UAE. In Global Changes and Natural Disaster Management: Geo-information Technologies (pp. 113-122). Springer, Cham

Journal Papers

12. Shanableh, A., Al-Ruzouq, R., Yilmaz, A., Siddique, M., Merabtene, T. and Imteaz, M. (2018). Effects of land cover change on urban floods and rainwater harvesting: A case study in Sharjah, UAE. Water Volume 10, Issue 5, 13 May 2018. Scopus, IF = 2.05
13. Shanableh, A. (2018) Modelling impact of precipitation of magnesium using lime on removal of select wastewater contaminants, Desalination and Water Treatment Journal, Vol. 100, pp. 287–294
14. K. Hamad, A. Shanableh, and I. Sahnoon. Multi-Objective, Risk-Based Approach for Safe and Sustainable Vehicle Routing. Advances in Transportation Studies - An International Journal (Accepted for Publication on January 2018)
15. Omar, M., Hamad, K., Al Suwaidi, M., and Shanableh, A. "Developing Artificial-Neural-Network Models to Predict Allowable Bearing Capacity and Elastic Settlement of Shallow Foundation in Sharjah, United Arab Emirates". Arabian Journal of Geosciences (Accepted 2018)

16. Omar, M., Shanableh, A., Arab, M. et al., "Advanced Mathematical Models to Predict the Compaction Properties of Coarse Grained Soils from Various Physical Properties". *Geotechnical and Geological Engineering* (2018). <https://doi.org/10.1007/s10706-018-0547-2>
17. Al-Ruzouq, R., Shanableh, A., Omar, M., and Al-Khayyat, G. (2018). "Macro and micro geo-spatial environment consideration for landfill site selection in Sharjah, United Arab Emirates". *Environmental monitoring and assessment*, Vol.190, No. 3. 147. Scopus, IF = 1.974, <https://doi.org/10.1007/s10661-018-6538-1>
18. Barakat, S., Shanableh, A., Altoubat, S., and Abou-Dagga, K. (2018) "Assessment of seismic structural risk for model buildings in the city of Sharjah, UAE". *Jordan Journal of Civil Engineering*, Vol. 12(1), pp. 25-138
19. Shanableh, A. and Radeef, W. Biogas Production from Raw and Oil-Spent Date Palm Seeds Mixed with Wastewater Treatment Sludge (2017), *Biofuels Journal*, <https://doi.org/10.1080/17597269.2017.1398954>
20. Saad, R., Hamad, K., Shanableh, A., and Radeef, W. (2016) "GIS Risk-Based Routes for Hazardous Shipments by Roads," *Journal of Traffic and Logistics Engineering*, Vol. 5, No. 1, pp. 30-34, Doi: 10.18178/jtle.5.1.30-34
21. Hamad, K., Ali Khalil, M., Shanableh, A. (2017) "Modeling roadway traffic noise in a hot climate using artificial neural networks". *Transportation Research Part D: Transport and Environment*, Vol. 53, pp. 161-177
22. Al-Ruzouq, R., Hamad, K., Shanableh, A., Khalil, M. (2017) Infrastructure growth assessment of urban areas based on multi-temporal satellite images and linear features, *Annals of GIS Journal*, Vol. 23, No. 3, pp. 183-201 Scopus, SJR =0.43
23. Shanableh, A., Imteaz, M., Hamad, K., Omar, M., Merabtene, T., Siddique, M. (2017) "Potential impact of global warming on whiting in a Semi-Enclosed Gulf", *International Journal of Global Warming*, Vol. 13, Nos. 3/4, pp.
24. Omar, M., Shanableh, A. (2016) "Evaluation of Methods Used For Reducing Heavy Metal Leaching From Sandy Soil", *Geotechnical and Geological Engineering*, Vol. 34, No. 5, pp. 1413–1423, DOI 10.1007/s12517-015-2194-8
25. Omar, M., Shanableh, A., and AlZaylaie, M. (2016) "Modification of the Swelling Characteristics and Phosphorus Retention of Bentonite Clay Using Alum", *Soils and Foundations Journal*, Vol. 56, No. 5, pp 861- 868
26. K. Hamad, M. A. Khalil, and A. Shanableh (2016) Calibration of Conventional Models for Predicting Free-Field Road Traffic Noise in Sharjah, United Arab Emirates. *Advances in Transportation Studies - An International Journal Section B* (ISSN: 18245463), Vol. 40, pp. 69 –86, November 2016
27. Merabtene, T., Siddique, M. and Shanableh, A. (2016) "Assessment of Seasonal and Annual Rainfall Trends and Variability in Sharjah City, UAE". *Advances in Meteorology*, Volume 2016, Article ID 6206238, DOI: <http://dx.doi.org/10.1155/2016/6206238>
28. Serghani, M., Shanableh, A., and A. Ahsan. (2016) "Exploratory Study to Assess the Impact of Chitosan /Bentonite Ratio on the Metal Removal Capacity of Chitosan Modified Bentonite Clay". *Global Network of Environmental Science and Technology Journal*, Vol. 18(2), pp. 437 – 443
29. Shanableh, A., Serghani, M. and Enshasi, G. (2016) Phosphorous Adsorption Using Al³⁺/Fe³⁺-Modified Bentonite Adsorbents - Effect of Al³⁺ and Fe³⁺ Combinations. *Desalination and Water Treatment Journal*, Vol. 57, No. 33, pp. 15628-15634
30. Adam, N. and Shanableh, A. Combined Production of Biofuels from Locally Grown Microalgae. *Int. J. Thermal & Environ. Eng*, Volume 13, No. 1 (2016) 7-12
31. Radeef, W., Shanableh, A. and Merabtene (2016) T. Impact of Date Palm Seed Size on Biogas Production from Date Seed/Wastewater Treatment Sludge Mixtures. *Int. J. Thermal & Environ. Eng.*, Volume 13, No. 1 (2016) 1-6
32. Sahnoon, I., Shanableh, A. and Hamad, K. (2016) Risk-based GIS model for hazardous materials routing in Sharjah, United Arab Emirates as a case study. *Int. J. Sustainable Society*, Vol. 8, No. 2, pp. 96-108

33. Al-Ruzouq, R., Shanableh, A., & Merabtene, T. (2015). Geomatics for Mapping of Groundwater Potential Zones in Northern Part of the United Arab Emirates-Sharjah City. *The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*, 40 (7), 581-586
34. Shanableh, A. (2014) Alignment of course contents and student assessment with course and programme outcomes – a mathematical approach. *UK J. of Engineering Education*, Vol. 9, No. 1, 48-61
35. Al-Ruzouq, R. and Shanableh, A. (2014) Multi-Temporal Satellite Imagery for Urban Expansion Assessment at Sharjah City/UAE, *Malaysian Journal of Remote Sensing & GIS*, Vol. 3, No. 2, pp. 76-83
36. Imteaz, M., Matos, C., and Shanableh, A. (2014) Impact of Climatic Variability on rainwater tank outcomes for an inland city, Canberra. *Int. J. Hydrology Sci. & Tech.*, Vol. 4, No. 3, 177-191
37. Salah, H., Omar, M. and Shanableh, A. (2014) Estimating Unconfined Compressive Strength of Sedimentary Rocks in United Arab Emirates from Point Load Strength Index. *Journal of Applied Mathematics and Physics*, 2, 296-303
38. Shanableh, A. and Sergany, M. (2013) Removal of phosphate from water using six Al-, Fe-, and Al-Fe-modified bentonite adsorbents, *J Environ Sci Health –Part A: Tox Hazard Subst Environ Eng.* Vol. 8, No. 2, pp. 223-31.
39. A. Ahsan, A. Rahman, A. Shanableh, N. Nik Daud, T. Mohammed, A Mabrouk (2013). Life Cycle Cost Analysis of a Sustainable Solar Water Distillation Technique, *Desalination and Water Treatment*, Vol. 51, No. 40-42, pp. 7412-7419
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