

دكتور / خالد قحمان

KHALID QAHHMAN, Ph.D., M.S.,B.S.

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Education:

- 2004 **Ph.D in Civil Engineering** (Hydrogeology), Ecole Mohammedia D'ingénieurs - Mohamed V University,(EMI, Rabat- Morocco). Thesis is (Aspects of Hydrogeology, Modeling, and Management of Seawater Intrusion for Gaza Aquifer – Palestine)
- 1998 **Master of Science (MSc.)** in Hydrological Engineering (IHE-Delft, The Netherlands 1998). The Master Thesis is (Monitoring of Seawater Intrusion in the Gaza Strip, Palestine)
- 1994 **Diploma in Water Supply** and Environmental Sanitation, Birzeit University (BZU) and co-operation with International Institute for Infrastructure, Hydraulic and Environmental Sanitation (IHE, The Netherlands).
- 1994 **Bachelor degree (B.Sc.)** in Civil Engineering, Birzeit University (BZU, Palestine).
The Graduation Project is (Planning and Primary Design of Gaza Port)

Expertise:

Environmental Engineering, Environmental Management, Groundwater Modeling, Water Engineering and Planning

Posts:

- 2006- Present **Deputy Chairman, EQA**
- 2006- Present **Ass. Prof. – Alquds Open University – Master of Public Health –Part time**
- 2002- 2006 **Technical Advisor of EQA Chairman.**
- 2000- 2002 **Director General of Policies, Planning and International Cooperation at the Ministry of environmental Affairs (MEA).**
- 1995-1999 **Deputy Manager of Water and Sanitation Planning Unit, in the Ministry of Planning & International Cooperation.**

Languages:

	Speak	Write	Read
1. English	V.Good	V. Good	V. Good
2. French	Fair	Fair	Fair
3. Hebrew	Fair	Fair	Fair
4. Arabic	Mother tongue.		

Computer Skills:

MODFLOW model, MT3D contaminant transport model, SUTRA, SEAWAT, CODESA3D contaminant transport models, Arc view GIS, Groundwater data base GWW, AutoCAD, SURFER, Microsoft Office, Word, Excel, Access and WordPerfect.

Special Courses and Training:

1998	Policy Formulation and Analysis; Program Design and Strategic Organizational Planning Training workshops in the General Directorate for Policies and Plans (GDPP) of MOPIC.
1997	Fieldtrip and Fieldwork abroad (20 days) in the field of water resources management, hydrology and Geo-environment.(the Netherlands, Belgium, Germany, Czech Republic and Austria)
1997	Effective water resources management in the Middle East including water economics and system modeling and Optimization policy models for agricultural planning considering the inter-linkages between the agriculture sector and water resources, optimization, in Delft Hydraulics Institute of the Netherlands in Cooperation with Harvard University of USA.
1996	Workshop in Water Allocation System in the Middle East in Egypt.
1996	Macro-economic policy models of water resources planning and management at John F. Kennedy School of Government, Harvard University-USA.
1996	Advanced English Course British Council - GAZA
1995	Advanced course in wastewater for Palestine in Japan (JICA).
1995	Advanced course in wastewater and water supply in Gaza (CDG)

Membership:

- Member in National Technical Commission of the UNESCO project on Capacity Building and training on Environment, Phase II (513RAB2041)
- Palestinian Representative for Environment in Arab Engineering Union
- The Engineering Syndicate in Gaza Strip.
- Member in the Administration Council of Educational and Creative Thinking Association.
- Member of local advisory committee for Gaza-2010 Harvard project.

Other Professional Activities:

2006	- Khanyounis wastewater treatment plant' infiltration system ,
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Geotechnical and Hydrological Study, **Hydro-geological expert**

- 2006 - Preparation of research study about Water in the Gaza strip funded by UNESCO, , **Hydro-geological expert**
- 2005 - Trainer for Local Water Engineers under the subject of Seawater intrusion.
- Assistant Professor (Part time) at Palestine International University.
- 1999 - Trainer in solid-waste, wastewater and environmental impact assessment course held at Gaza Islamic University (CDG)
- Technical counterpart in the Coastal Aquifer Management Program.
- Technical counterpart in the northern Gaza Wastewater Project.
- Technical counterpart in the Middle area of Gaza Wastewater Project.
- 1998 - Water and Wastewater team Coordinator for the National Policies for Physical Planning.
- Water and Wastewater Sector Coordination for the Palestinian Development Plan 1999-2001.
- Team member for Harvard Middle East Water Project.
- 1997 - Planner for the Water & Sanitation Regional Plan.
- Review and evaluate the study “Master Plan of Sewerage and Drainage in the Gaza Strip” carried out by French Consulting Company.
- Review and evaluate the feasibility study” Construction of the Central Wastewater Treatment Plant in Gaza” carried out by French Consulting Company (Cost Estimate is 75 million USD)
- Review and evaluate the feasibility study” Reuse of the treated Wastewater Effluent” carried out by French Consulting Company.
- Review and evaluate Khan Younis Sewerage and Drainage Development Project funded by Japanese International Development Agency (JICA) (Cost Estimate is 209 million USAID). The project includes the preparation of sewerage and drainage master plan, feasibility studies for the developmental large-scale projects and Environmental Assessment, Project documents for the physical implementation.
- 1996 - Coordinator for the water sector in the Palestinian Investment Program (PIP), 1996
- 1995 - Infrastructure Planner in “Water and sewage Structural Plan for Gaza City”
- Participate in the Emergency Rehabilitation Program (ERP), 1996
- Regional Planning of Proposed Wastewater Treatment Plants in Gaza Strip.
- Planning of Coastal water carrier along Gaza Strip.
- Project Proposal for Wadi Gaza Water Course development.
- Project Proposal for Industrial Estates in Gaza Strip.
- Project Proposal for Infrastructure Rehabilitation in Gaza Strip.
- Detailed Design and Tender Documents for Infrastructure
- 1994 - Supervision the Implementation of three building towers including construction and finishing at Alkarama area in the north of Gaza City. This was including supervision, reporting, building, and making shop drawings.

Key Publications:

- Khaled Qahman, Zeyad Abu-Hassanein, Water in the Gaza Strip, Final Report, A desk study submitted for the United Nations Educational, Scientific, and Cultural Organization, UNESCO, Feb. 2006, 69 pp.
- Feasibility Study of Wastewater Reuse in WWTP in Khanyounis,

- Geotechnical and Site Investigation Results, submitted to the PLANCENTER International Consultant, Finland, Feb. 2006, 52 PP.
- Feasibility Study of Wastewater Reuse in WWTP in Khanyounis, Hydrogeological Investigation and Groundwater Modeling Results, submitted to the PLANCENTER International Consultant, Finland, March 2006, 55 PP.
 - Drinking Water Problem in Hebron City (Delft University of Technology TUDelft, The Netherlands and Birzeit University (BZU), Palestine 1993).
 - Planning and Primary Design of Gaza Port (B. Sc. Graduation Project BZU 1994).
 - Waste Water Survey- Jabalia (1994).
 - Water and Sewage Structural Plan for the Gaza City (MOPIC, 1995).
 - Palestinian National Report for Habitat II Conference in Turkey (MOPIC, 1996).
 - Groundwater Study for the Eastern Basin in the West Bank (IHE, 1997).
 - Monitoring of Seawater Intrusion in the Gaza Strip (M.Sc. research, IHE, April 1998).
 - Regional Plan for the Gaza Governorates (MOPIC, 1998).
 - National Policies for Physical Planning (MOPIC, 1998).
 - Palestinian Development Plan for years 1999-2001 (MOPC, 1998).
 - Feasibility Study for Environmental Hot Spots in Palestine (Abu Shahla & Associates Consulting Engineers, 1998).
 - Wastewater and Stormwater Master Plan for Gaza Governorates (MOPIC, 1998).
 - Feasibility Study for the Construction of the Central Wastewater Treatment Plant (MOPIC, 1998).
 - Feasibility Study for Reuse of Treated Wastewater (MOPIC, 1998).
 - Environmental Strategy Plan (MEnA, 1999).
 - National Environmental Action Plan (MEnA, 1999).
 - Qahman K., LARABI A. (2003a) Identification and Modelling of Seawater Intrusion of the Gaza Strip Aquifer-Palestine In: Proc TIAC03 Int Conf, Alicante- Spain, V. 1, p. 245-254.
 - Qahman K. and LARABI A. (2003b) Simulation of seawater intrusion using SEAWAT code in Khan Younis Area of the Gaza Strip aquifer, Palestine. In: Proc JMP2003 Int. Conf, Toulouse, France.
 - Qahman, K. and Larabi A. (2004b). Numerical modelling of seawater intrusion in Khan-Younis area of the Gaza strip aquifer-Palestine. In: Proc CMWR2004 Int. Conf, North Carolina., USA.
 - Qahman K. and LARABI A. (31 May-3 June, 2004a) Three dimensional numerical models of seawater intrusion in Gaza Aquifer, Palestine: Proc 18th Salt Water Intrusion Meeting, Cartagena, Spain.
 - Qahman K. and LARABI A. (2004b) Evaluation and Numerical Modelling of Seawater Intrusion in the Gaza Aquifer (Palestine): Under review: Submitted to Hydrogeology Journal in April 2004.
 - Qahman K., Larabi A., Ouazar D., Naji A., and Cheng A. H.-D.(2005): Optimal and Sustainable Extraction of Groundwater in Coastal Aquifers, Stochastic Environmental Research and Risk Assessment Journal, Volume 19 (2).

