

CURRICULUM VITAE



Associate Prof. **Personal Information**

<u>Name</u>	Hamaideh
<u>First Name</u>	Arwa
<u>Date of Birth</u>	25-04-1971
<u>Place of Birth</u>	Madaba
<u>Nationality</u>	Jordanian
<u>Gender</u>	Female

Contact Information

E mail:
Arwa.efb@gmail.com
Hamaideh.arwa@ju.edu.jo

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Languages

Arabic (native speaker), English (Fluent), German (very good)

Education

- 2001-2005 BTU-Cottbus, Germany, PhD, Capillary Break System for Improved Water Harvesting and Subsurface water storage in Arid and Semiarid Regions.
- 1997-1998 International Institute for Infrastructures Hydraulic and Environmental Engineering (IHE), Delft, Netherlands, Master of Water and Environmental Resources Management
- 1988-1994 University of Jordan, Faculty of Engineering, Bachelor of Civil Engineering.
- 1976-1987 Primary, Secondary and high School, Jordan .

Scholarships

- 1988-1993 Royal Court- Jordan Scholarship for Bachelor study
- 1997-1998 Ministry of Planning (Jordan) – IHE (Delft The Netherlands) Master Scholarship
- 2001-2005 DAAD (German Academic Exchange Service) PhD- Scholarship

Employment record

- 2016 Associate Prof WEEC-UJ
- 2015 Establishing Director of Innovation Center-University of Jordan
- 03.2008- on going University of Jordan- Water and Environmental Research and Study Centre as researcher. Participation in the project -The Middle East Water and Livelihood Initiative (WLI) - preparation with ICARDA. Cooperation with Mediterranean Sea Basin ENPI CBC program applying for Eco-Tourism project. Lecturing in Integrated Water Management Program, a master program funded by DAAD. Design, implementation, and evaluation of water harvesting structures in South Jordan –a project collaborated with SABEQ program-USAID. Team member In Badia Benchmark Project Phase 2/ ICARDA.

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- Member in Public action Plan for Water, Energy and Environment (PAP), behaviors change project funded by USAID
- Mentor Master Thesis title “ Introducing the Blue Flag Eco-label as an instrument for Conserving the Marine Environment in the Gulf of Aqaba” IWRM master Program-Cologne and UoJ.
- Second supervisor for PhD Thesis title “Palaeodrainage systems, hydroclimatic changes, and traditional water use in Jordan” Heidelberg University
- Traning Transboundary Water Management (TWM) in the Middle East and North Africa MENA. Funded by Sida
- Training for Professionals from Yemen “Water Resources Management Planning and Modeling”.
- Teaching IWRM principles, Water Governance Master level

11.2006 – 08.2007

TU- Karlsruhe, Germany. Joining the international project Sustainable Management of Available Water Resources with Innovative Technologies (SMART). My main task was implementation of a pilot project in Southern Jordan. It is a construction of new water harvesting technology (my PhD thesis), and test the system efficiency in evaporation reduction and compare it with laboratory work.
Lecturing in BTU- Cottbus Water and Environmental Master Program, Sahel Syndrome

02.2006 – 10.2006

German Jordanian University/Assistant for the Vice-President.
Main tasks were preparation of master program in water management funded by DAAD. Establish a plan promoting students to join water and environmental school at the GJU. Follow up of the all study courses that where established at the young university. Thinking tank for all water relevant activities at the university.

09.2005 - 02.2006

AGEF; German NGO with its regional office in Amman. Assistant for the Regional Manager.
Tasks: Establishment of experts’ data base, initiation of projects with local community, promotion of reintegration packages for professionals coming back from Germany to Jordan and, support technology and knowledge exchange through know-how means between Germany and Jordan.

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1993-2000

Ministry of Agriculture, Jordan, Projects Directorate. Head of Engineering Division.

Tasks: Preparing tenders, mainly for watershed management projects, evaluating the performance of projects. Environmental Impact Assessment (EIA), water management, water harvesting and land use planning activities.

Organization of a solid waste management workshop.

Coordinator for an EIA Seminar of the Ministry of Agriculture, in Cooperation with the Deutsche Gesellschaft fuer Technische Zusammenarbeit (GTZ).

Ministry of Agriculture, Agricultural Resources Management Project, Structure Department, Water Harvest Division.

Tasks: Planning of water harvesting structures, supervision of the building sites, Environmental effect monitoring. Lectures on Water Management and Environment Conservation.

Computer skills

Word, Excel, Auto CAD

Key Qualification

Water harvesting, EIA, Desertification, Water Policy IWRM, water Technology

Training

1994

Concrete structure course

1995

AutoCAD program course

1995

Conference on environmentally sound technologies, Amman

1998

Environment impact assessment seminar, Amman (GTZ)

1998

Solid waste management in Jordan seminar, Dead Sea (USAID)

2003

International water symposium, Stockholm

2004

Unsaturated Zone Modelling symposium, Wageningen- Netherlands

2006

SMART project meeting in integrated water management in the Jordan Valley

2007

Member in Alphioes- Berlin company preparation for a big project in establishing a German Medical Center in Amman

2008

Member in writing many projects application to National and International donors

2008

Lecturer in EIA supported by UNDP for Iraqi managers

2008

Cooperation with CARDNE regional office in Amman, establishing Experts networking for water, environment, employment and Agricultural projects

2009

Paper presentation at Ain Shams University-Cairo, Title: Pore Storage System in Arid Regions

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- 2009 Lecturing for Master Program IWRM-an international German Jordanian joint program. Courses Integrated Water Management
- 2010 Lecturer at the Regional Centre on Conflict Prevention-Jordan Institute for Diplomacy. Water in the Middle East
- 2010 Member at ISO and accreditation committee- University of Jordan
- 2010 Member of the team working on: Water Benchmarks OF CWANA. A Community-based Optimization of The management of Scarce Water in West Asia and North Africa Funded by the Arab Fund for Social and Economic Development (AFSED)
- 2010 Training for professionals from Yemen in Water Planning and Development
- 2012 Water Footprint Assessment
- 2013 Consultant in water and environmental management for E4Business UK.
- 2013 Expert in Data Quality Review (DQR) IDEA-Canada Team for MCC Jordan.
- 2014 Reviewer for "The American Association for Science and Technology (AASCIT) "
- 2014 Member in The Arab Integrated Water Resources Management Network (AWARENET)
- 2015 Lead Guest Editor International Journal of Scientific and Technological Research
- 2015 Chair of Water Footprint in WG in AWARENET
- 2015 Director of Innovation Centre University of Jordan
- 2015 member "EXCEED" –Excellence through dialogue and research– DAAD and Braunschweig University project
- 2016 Reviewer for International Journal of Biodiversity and Conservation
- 2017 Trainer with Capnet on SDG

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Projects:

- Subsurface Water Storage in Arid Environments, Funded by BMBF 2006-2012. Principal Investigator
- Roman Cisterns in South Jordan Assessment as Climate Change Adaptation Measure. Deanship of Scientific Research. Jordan. 2010-2011. Principal Investigator
- EU projects:
 - “Future European Tunisian Research Innovation Cooperation” . Consultant
 - “FP4BATIW Involving SMEs in Water Business”. Consultant
 - Potential of Using Zeolite in Grey water treatment.
- Managed Aquifer Recharge using Treated Wastewater in Different Geological Settings of MENA countries. USAID
- Mitigating Environmental Risks of Wastewater Reuse for Agriculture .USAID
- Stakeholder analysis and pilot study for safe use of treated wastewater in Agriculture. Framework for Sanitation Safety Plan. WHO
 - Water Footprint Analysis as tool for Innovative Water Management in Jordan

Publications:

- Hamaideh A., Kruemmelbein J., Gerwin W. and Huettl R.F. Investigation of Capillary break-system to prevent water losses from water reservoirs in Central Jordan. Third Ein Shams International Engineering Conference Proceedings. April, 2009
- Hamaideh A., Dead sea-Red Sea Canal project: environmental and Political Concerns. International Journal of Applied Environmental sciences, ISSN 0973-6077, Volume 5, Number 3 (2010), pp 393-400.
- Hamaideh A.,Water Import options in the Middle East. Journal of Soil and Water Conservation. April, 2010
- Hamaideh Arwa, Food Security in the Middle East. WATEIC First Water and Environment International Conference. 2011. Morocco
- Hassan Al-Fugha¹, Tayel El-Hasan², Ahmad Al-Malabeh³, Arwa Hamaideh and Ahmad El-Mezayen⁵. Petrology, geochemistry and origin of felsic dyke swarms in Aqaba complex (Wadi Al-Yutum) South Jordan. Journal of Earth Science and Engineering, 1 (2011)
- Barbara Brilmayer Bakti , Olaf Bubenzer, Arwa Hamaideh. Traditional water use at the desert margin water harvesting strategies on the Karak Plateau, Jordan, with special regard to old cisterns. 32nd International Geographical Congress (IGC 2012), Cologne Germany.
- Ehab Shamayleh, Arwa Hamaideh, Alaa Zayed. Theoretical Study of the Structure of 2,6-Dibromopyridinium Halide Salts. Asian Journal of Chemistry; Vol. 25, No. 14 (2013).

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- Garaleh Bassam, . . . , Hamaideh Arwa, Plant Growth-Promoting Using Zeolite Tuff: A Potential Tool for Arid Land Rehabilitation. *American-Eurasian J. Agric. & Environ. Sci.*, 13 (8): 1141-1149, 2013

-Halalshe M, G. Kassab, L. Lina Abu Ghunmi, A. Hamaideh, Temperature shift as a tool for better understanding. IWA Specialist Conference - Global Challenges: Sustainable Wastewater Treatment and Resource Recovery 26-30 October 2014, Kathmandu, Nepal

- Hamaideh Arwa, Bassam Al-Qarallah, Moshrik R. Hamdi, Saida Ali Abu Mallouh, Juma'a Khalil Al-Kafawein, Mazen Alshaaer. Synthesis of Geopolymers Using Local Resources for Construction and Water Purification. *Journal of Water Resource and Protection*, 2014, 6, 507-513

-Hamaideh Arwa, Kostas Komnitsas, Muayad Esaifan, Juma'a K. Al-Kafawein, Hubert Rahier Advantages of applying a steam curing cycle for the production of kaolinite-based geopolymers. *Arabian Journal for Science and Engineering*, ISSN 1319-8025, 2014

- Hamaideh Arwa, Emad K. Al-Karablieh and Amer Salman , Faten O. Al-Najjar. Participatory Approach in Domestic Water Demand Management. *The Journal of American Science*.ISSN 1545-1003. May,2015

-Al Shaer M., **Hamaideh** Arwa. Synthesis of geopolymer cement using natural resources for green construction materials. 8th International Conference on Engineering Mechanics, Structures, Engineering Geology .(EMESEG15). May, 2015.

-Hamaideh Arwa, Managed Aquifer Recharge Wadi Ishe Jordan. SMART (sustainable management of available resources with innovative technologies) BMBF funded project. Final Report Kit Scientific Publications 2015.

-Joep Schyns , Arwa **Hamaideh**, Arjen Hoekstra, Mesfin Mekonnen, Marlou Schyn. Mitigating the risk of extreme water scarcity and dependency: The case of Jordan. *Water* **2015**, 7, 5705-5730; doi:10.3390/w7105705

-*Abu Ghunmi, L. Arwa* **Hamaideh**, Laila Alkhatib, and Nadia Atoom (2016). Fungi potential in treatment of industrial wastewaters. Conference of Water security and climate change: challenges and opportunities in Asia. Bangkok, Thailand 28/11-1/12/ 2016

-**Hamaideh** Arwa, Hoetzl H, Raggad M. Water Harvesting: Groundwater Storage Reservoir in Wadi Ishe, Jordan. *Scientific Research and Essays*, 2017, Vol 12(3).

-**Hamaideh** Arwa, Raggad M., Bart Johnsen-Harris, Ahmad Shdaifat. Groundwater resilience to climate change in the Eastern Dead Sea Basin-Jordan. *Scientific Research and Essays*, 2017, Vol 12(3).

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-Hasan, A., Hamaideh, A., Riad, P: Chapter 4: water management in MENA region book, Exceed-Swindon, ten years of International networking on sustainable Water management, Cuviller verlag, Goettingen, 2019, pp16.

-Nidal Saada, Mustafa Abdullah, Arwa Hamaideh, Application of Stochastic Analysis, Modeling and Simulation (SAMS) to Selected Hydrologic Data in the Middle East. Engineering, Technology & Applied Science and Research. Vo.9, 2019, 461-464

Submitted Papers:

-Remote sensing based mapping of rainwater harvesting structures for improved resource planning: an example from semiarid rural Jordan

Supervision Master Thesis

-“ Introducing the Blue Flag Eco-label as an instrument for Conserving the Marine Environment in the Gulf of Aqaba” IWRM master Program-Cologne and UoJ.

- Potentials of Crowdfunding in the Middle East and North Africa (MENA) .2013-2014

- The Water Footprint Concept as a Tool for Water and Agricultural Management Policies in Jordan: An IWRM Perspective on Food Security. 2014

-Examining on-farm perception and techniques of dryland rainwater harvesting- Case Study of Hejlega, Gezira (Sudan). 2015

– Remote Sensing Approach to Evaluate the Variations of Precipitation and Evapotranspiration in relation to Drought in the Euphrates-Tigris River Basin

-Managing water in Jordan during regional conflict