

Dr. Mohamed A. Dawoud

- Professor, National Water Research Center, Egypt (on leave)
- Senior Water Resources, Environment Agency – Abu Dhabi (EAD), UAE
- Board Member, Arab Water Academy
- Board Member, Arab Water Council
- Advisory Board Member, Desalination Excellence Center, UAE
- Member and Secretariat, Higher Committee for Water and Agriculture Strategy Implementation, Abu Dhabi-UAE



Personal Information

Name	: Mohamed Abdelhamid Dawoud
Nationality	: Egypt
Date of Birth	: 1 st December 1968
Marital Status	: Married
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E-mail	: dawoud.ead@gmail.com mdawoud@ead.gov.ae
Google Scholar	: Total Citations: 897; h-index: 14; i-10 index: 20
ResearchGate	: https://www.researchgate.net/profile/M_Dawoud
SCOPUS	: Id=7004296990, h-Index (14), citations (897)
LinkedIn	: https://www.linkedin.com/in/mohamed-dawoud-830b5650

Key Qualifications

I have more than 30 years of international experience in water resources management, hydrogeology, desalination, and desalination projects design and management, spanning 15 countries in the Middle East, Africa, and Asia. As a senior water advisor at EAD, Dawoud has 20 years of strategic leadership managing the execution of the Department's key projects and strategies since 2003. He was also in charge of resource mobilization, fundraising and management of annual \$35 million portfolio in the areas of water resources, hydrogeology, desalination, aquifer artificial recharge, climate change, infrastructure, and governance. I have an established global network and relationships and provide consultancy services for international partners on water and agriculture sustainable development, including the World Bank, CEDARE, UN Environment, AOAD, ICARDA, ESCWA, UNESCO, FAO, AfDB, ICBA, bilateral agencies such as GIZ, JICA, and NASA, and non-governmental organizations. I am internationally known for my work and research on promoting innovative technologies on desalination and water treatment. Since 2010, I am leading research programs with Wageningen University, IHE Delft in Netherlands and Massey University in New Zealand for promoting innovations in water resources, agriculture, agriaquaculture and climate change in arid regions. Dawoud has published 8 books, 7 book chapters and over 100 papers in peer reviewed journals and regional and international conferences. The following is the list of some similar projects for the design and construction supervision of solar powered desalination plants in Egypt, UAE and KSA.

Education

- 2001 Ph. D, Water Resources and Irrigation, Irrigation and Hydraulics Department, Faculty of Engineering, Ain Shams University, Egypt through joint program with Colorado State University – Fort Collins, Colorado State, USA.
- 1997 M. Sc. Water Resources and Environment, Irrigation and Hydraulics Department, Faculty of Engineering, Ain Shams University.
- 1991 B. Sc. Civil Engineering, Faculty of Engineering, Menoufia University, Menoufia, Egypt, with honor degree ranked 2nd on the class.

Training Courses

- 2016 Strategic Planning, Meirc Training and Consulting Dubai, UAE
- 2014 Leading Change @ Abu Dhabi Government, PeoplePlus FZ LLC, Dubai, UAE
- 2013 Advanced Project Management Course, AMIDEAST, Abu Dhabi, UAE
- 2012 Innovative Agriculture in Saline and Marginal Environments, CIHEAM, International Center for Advanced Mediterranean Agronomic Studies, Spain.
- 2012 Spokesperson Coaching, Pinnacle Public Relations Training (accredited by British Accreditation Council)
- 2011 Water Governance, Arab Water Academy and World Bank Institute, NY, USA.
- 2011 Project Management Fundamentals, AMIDEAST, Abu Dhabi, UAE
- 2010 Water Diplomacy, Arab Water Academy and Netherlands Institute for International Relations, Netherlands.
- 2009 Strategic Outsourcing, TCQTriangle Management Consulting Group.
- 2008 Leadership Lecture, Lead, Abu Dhabi.
- 2007 Integrated Management System (IS 9001:2000, ISO 14001:2004, OHSAS 18001:1999), TUV Middle East (TUV Nord Group)
- 2006 Making sense of Environmental Data Using Hydrogeo Analyst, Schlumberger Water services and Waterloo Hydrogeologic, Canada.
- 2006 The Managing Change Workshop, Glenn Price Performance Coach, Abu Dhabi.
- 2004 The Regional Workshop of AGFUND-MNA Partnership and Technical Assistance in Water Resources for the GCC countries, The World Bank.
- 2003 The Regional Workshop on (The Use of Marginal Water in Irrigation), The Workshop organized by Inter-Islamic Network on Water Resources Development and Management and The International Center for Biosaline Agriculture in Dubai, United Arab Emirates.
- 2002 The Regional Workshop on (The Application of Groundwater Rehabilitation Techniques to Different Hydro-geological Environment), organized by Economical and Social Commission for Western Asia (ESCWA), United Nation (UN), Beirut, Lebanon.
- 2001 Training Course on (Alternative Sources of Water for Irrigation: Influence of Technical, Environmental and Economic Factors), organized CIHEAM, International Center for Advanced Mediterranean Agronomic Studies, Spain.
- 1999 Training Course on (The Conjunctive use of Surface Water and Groundwater: Modeling and Management systems), organized by CIHEAM, International Center for Advanced Mediterranean Agronomic Studies, Zaragoza, Spain.
- 1998 Training Course on (The Design of Groundwater Quality Monitoring Networks and Data Processes), the course organized by IHE, Delft and IWACO Consultants for Water and Environment, Rotterdam, Netherlands.
- 1997 Training Course on (The Management of Municipal Water Supply in the Middle East Area), Part 2, Chalmers University of Technology in Cooperation with Swedish International Development Cooperation Agency, Geteborg, Sweden. The course is

conducted under the auspices of the Multilateral Working Group on Water Resources within the framework of the Middle East Peace Process.

- 1996 Training Course on (The Management of Municipal Water Supply in the Middle East Area), Part 1, Chalmers University of Technology in Cooperation with Swedish International Development Cooperation Agency, Geteborg, Sweden.
- 1995 Training Course on (Hydrology and Groundwater Modeling), organized by International Institute for Infrastructure, Hydraulics and Environmental Engineering in Cooperation with IWACO consultants for Water and Environment, Delft, Netherlands.

History of Employment and Assignments

1. Consultancy Services with International Organizations



International Center for Biosaline Agriculture (ICBA)-Dubai

- 2020-2023 : Salt Leachate Monitoring Program in Agriculture Sector for Abu Dhabi Emirate.
- 2020-2021 : From Desert Farm to Fork: Value chain development for innovative Salicornia-based food products – A case study in the United Arab Emirates
- 2019-2020 : Development of crop calculator (Phase 2) for estimating crops irrigation water use under greenhouses and shed houses in UAE.
- 2018-2019 : Development of crop calculator (Phase 1) for estimating crops irrigation water use in open agriculture in UAE.
- 2016-2019 : Development of SapFlow for calculating date palm irrigation water use
- 2015-2016 : Water conservation strategy for the United Arab Emirates
- 2010-2012 : Soil Survey of the Northern Emirates
- 2009-2010 : Development wastewater reuse strategy for Abu Dhabi Emirate
- 2005-2010 : Soil Survey of Abu Dhabi Emirate
- 2006-2007 : Development water resources master plan for Abu Dhabi
- 2006-2006 : Development of ICBA New Statutes



African Development Bank (AfDB)

- 2018-2019 : Egypt's Non-Conventional Water Resources: Desalination Sector Analysis and Proposed Development in Egypt (Sector Paper).



World Bank (WB)

- 2021-2021 : Water and Energy Nexus in GGC Region: The Role of Innovation in Improving the Nexus
- 2004-2005 : A Water Sector Assessment Report on the Countries of the Cooperation Council of the Arab States of the Gulf (GCC Countries)



United Nation Economic Commotion for West Asia (ESCWA)

- 2009-2010 : Developing of groundwater quality control and conservation plan in the ESCWA region



United Nation Educational, Scientific and Cultural Organization (UNESCO)

- 2021-2022 : From Challenges to Chances: Managing Non-Conventional Water Resources for Food Security in Countries of the Cooperation Council of the Arab States of the Gulf (GCC Countries)
- 2018-2018 : Development of Non-Conventional Water Resources Polices in Arab Countries
- 2016-2016 : Regional Flagship Project on Water for ASPnet schools in the Arab Region
- 2012-2013 : Development of groundwater operational management toolkit as a tool for enhancing groundwater governance in the Arab Region.
- 2008-2009 : Water harvesting techniques in the Arab Region



Middle East Desalination Research Center (MEDRC)

- 2019-2020 : Cutting-Edge water treatment and desalination technologies in MENA Region
- 2013-2014 : Design of small scale solar powered desalination plants for irrigation in Oman



Food and Agriculture Organization of United Nation (FAO)

- 2015 – 2015 : Agricultural Use of Treated Wastewater in Abu Dhabi: Gap Analysis and Potential Action Areas
- 2013-2013 : Near East and North Africa Land and Water Days



United Nation Environmental Program (UN Environment) and AGEDI

- 2014-2018 : Local, National and Regional Climate Change Program Including:
 - *UAE Food Security and Climate change*
 - *Desalination and Climate Change*
 - *Arabian Gulf Climate Change Modelling*
- 2015-2016 : Global Environmental Outlook GE-6, Regional Assessment for West Asia
- 2012-2013 : Arab Region Atlas for Our Changing Environment



Arab Water Council (AWC) and CERADE

- 2020 : Scientific Committee Member of 5th Arab Water Forum
- 2018 : 4th Arab State of the Water Reports in the Arab Region
- 2017 : Arab Non-Conventional Water Resources Initiative
- 2015 : 3rd Arab State of the Water Reports in the Arab Region
- 2014 : 2030 Strategic Vision for Treated Wastewater Reuse in Egypt.
- 2012 : 2nd Arab State of the Water Reports in the Arab Region

2. Director and Researcher



2003 - Pres. Director, Water Resources Department, Environment Agency- Abu Dhabi (EAD), UAE

- 2012-2022 **Technical Team Member**, Comprehensive study of Flood Risks, Management and Mitigation for Al Ain Region Infrastructure.
The project is funded by Al Ain Municipality with a total of \$270,000,000.
- 2019-2023 Leading Research Program with Massey University (NZ) Including the Following Sub-Projects:
- *Development and Implementation of a Decision Support Tool for Irrigation Allocation (Crop Calculator: Phases 1 and 2)*
 - *Measurement of sap flow in a date palm tree plantation or measurement of water requirements for date palm*
 - *Using brackish groundwater and TSE in Abu Dhabi forests*
 - *Salt leachate monitoring program*
 - *Three PhD Thesis and one Master Thesis in Water, Agriculture, Irrigation and Agriaquacluture*
- The program is funded by Abu Dhabi Executive Council with a total of \$4,500,000.*
- 2021-2023 Technical Committee Member, Al Taweelah IWP seawater reverse osmosis desalination plant (RO) with capacity of 200 MIGD (909,200 m³/day).
The project is funded by Abu Dhabi Governmnet with a total of \$874,000,000.
- 2016-2020 Leading Research Program with United Arab University (UAEU) Including the Following Sub-Projects:
- *Water budget for Abu Dhabi Emirate*
 - *Valuation of groundwater resources economics in Abu Dhabi Emirate, UAE*
 - *Climate change impacts on water resources in UAE*
 - *Oil and Gas produced water assessment and reuse*
- The project is funded by Abu Dhabi Executive Council with a total of \$1,230,000.*
- 2020-2023 **Technical Team Member**, Assessment and implantation of alternatives and options for transfer and reusing the treated wastewater in irrigation in Abu Dhabi Emirate (including design and implementation of 3 Mega Projects).
The project is funded by Abu Dhabi Government with a total of \$270,000,000.
- 2020-2023 **Principle Investigator**, Development of Hydrogeological Maps for Groundwater Aquifer Systems in UAE.
The project is funded by EAD with a total of \$3,750,000.
- 2020-2023 **Principle Investigator**, Deep Groundwater Aquifers Assessment in Abu Dhabi Emirates
The project is funded by EAD with a total of \$3,150,000.
- 2020-2020 **Technical Team Member**, Development of EAD's Strategic Plan (2021-2025)
The project is funded by Environment Agency – Abu Dhabi with a total of \$650,000.
- 2020-2023 **Principle Investigator**, Development of Groundwater Resources Policy for Abu Dhabi Emirate.

- 2019-2020 **Principle Investigator**, Development of Integrated Water Resources Management Strategy and Plan for Abu Dhabi Emirate
The project is funded by Abu Dhabi Executive Council with a total of \$650,000.
- 2018-2019 **Technical Team Member**, Development of UAE Food Security Strategy.
The project is funded by UAE Ministry of Food Security with a total of \$750,000.
- 2018-2019 **Technical Team Member**, Abu Dhabi State of Environment
The project is funded by Environment Agency – Abu Dhabi.
- 2017-2018 **Technical Team Member**, Environmental Atlas of Abu Dhabi Emirate
The project is funded by Environment Agency – Abu Dhabi.
- 2016-2017 **Technical Team Member**, Water Security Strategy 2036 for UAE
The project is funded by Ministry of Energy and Industry with a total of \$575,000.
- 2015-2017 **Technical Team Member**, Innovative Renewable Energy Water Desalination Programme: Ghantoot Desalination Four Pilot Plants.
The project is funded by Masdar with a total of \$5,000,000.
- 2015-2016 **Technical and Legal Team Member**, Establish a New Groundwater Regulation Law for Abu Dhabi Emirate (Law 5/2016).
- 2014-2016 **Technical Team Member**, Desert Plants and Carbon Sequestration in the Hyper Arid Environments.
The project is funded by UAE National Research Foundation with a total of \$79,000.
- 2013-2017 Technical Committee Member, Design and construction of 5-pilot renewable energy powered desalination plants to research and develop energy-efficient, cost-competitive desalination technologies powered by renewable energy with a capacity of 2,5000 m³/day for each unit at Ghantout – Abu Dhabi.
The project is funded by Masdar with a total of \$10,345,000.
- 2013-2014 **Technical Team Member**, Flash flood mitigation and water harvesting in Wadi Al-Khoud, Sultanate of Oman, *The project is funded by Oman Government with a total of \$ 1,080,000.*
- 2011-2017 **Technical Team Leader**, Design and Construction of Strategic Water Reserve Project in Al Dafrah Region (ASR – Liwa Project)
The project is funded by Abu Dhabi Executive Council with a total of \$ 335,000,000.
- 2010-2017 Leading Research Program with Wageningen University and Research, Netherlands (WUR) Including the Following Sub-Projects:
 - *Development of Abu Dhabi protected agriculture center at Beni-Yas*
 - *The Smart Farming system and precision agriculture**The project is funded by Abu Dhabi Executive Council with a total of \$6,250,000.*
- 2013-2016 **Principle Investigator**. Well Inventory and Soil Salinity Mapping in Agricultural Farms of Abu Dhabi Emirate.
The project is funded by Abu Dhabi Executive Council with a total of \$11,700,000.
- 2015-2015 **Technical Team Member**, Agricultural Use of Treated Wastewater in Abu Dhabi: Gap Analysis and Potential Action Areas jointly with FAO and Abu Dhabi Agriculture & Food Safety Authority.

The project is funded by Abu Dhabi Agriculture & Food Safety Authority with a total of \$250,000.

- 2010-2016 **Principle Investigator**, Mitigation Measures for Waterlogging Problems in Al Semeih and Al Shahama Areas, Abu Dhabi
The project is funded by Abu Dhabi Executive Council with a total of \$12,800,000.
- 2010-2015 **Principle Investigator**, Establishment of Abu Dhabi Protected Agriculture Center, in collaboration with Wageningen University, The Netherlands.
The project is funded by Abu Dhabi Executive Council with a total of \$4,350,000
- 2010-2015 **Principle Investigator**, Establishment of Abu Dhabi Organic Agriculture Center.
The project is funded by Abu Dhabi Executive Council with a total of \$2,560,000
- 2010-2013 **Principle Investigator**, Soils and Groundwater Contamination in Abu Dhabi Emirate, UAE.
The project is funded by Environment Agency Abu Dhabi with a total of \$109,000.
- 2009-2012 **Technical Team Leader**, Subsurface Porous Pipe Irrigation System of Abu Dhabi Emirate, UAE.
The project is funded by Environment Agency Abu Dhabi with a total of \$313,000
- 2010-2012 **Technical Team Member**, Soil Survey of the Northern Emirates.
The project is funded by Abu Dhabi Executive Council with a total of \$3,800,000
- 2009-2012 **Technical Team Leader**, Reuse of Treated Wastewater in Agriculture Farms in Abu Dhabi Emirate.
The project is funded by Environment Agency Abu Dhabi with a total of \$815,000.
- 2005-2010 **Technical Team Member**, Soil Survey of Abu Dhabi Emirate.
The project is funded by Abu Dhabi Executive Council with a total of \$8,500,000.
- 2009-2011 **Principle Investigator**, Design and supervise pilot project for changing the green landscape to hard landscape in Abu Dhabi",
The project is funded by Environment Agency Abu Dhabi with a total of \$462,000
- 2011-2012 **Principle Investigator**, Design and Implementation of Advanced Treatment Plant for Reuse of TSE in Agriculture (Al Nahda Farms)
The project is funded by Abu Dhabi Executive Council with a total of \$9,100,000.
- 2009-2011 **Principle Investigator**, Design and Implementation of 30 small scale RO solar powdered desalination unites in UAE.
The project is funded by Abu Dhabi Executive Council with a total of \$30,000,000.
- 2009-2010 **Technical Team Member**, Soil Survey of Abu Dhabi Emirate.
The project is funded by Abu Dhabi Executive Council with a total of \$8,500,000.
- 2009-2010 **Technical Team Member**, UAE Water Conservation Strategy.
The project is funded by Ministry of Environment and Water with a total of \$760,000.
- 2009-2010 **Technical Team Member**, Assessment Agriculture Development and Investment in Libya - Great Man-Made River Project.
The project is funded by Abu Dhabi Government.

- 2009-2010 **Principle Investigator**, Development of Wastewater Reuse Strategy for Abu Dhabi Emirate, in collaboration with ICBA, Dubai, UAE.
The project is funded by Abu Dhabi Executive Council with a total of \$ 650,000.
- 2008-2009 **Principle Investigator**, Impact of Wastewater Discharge on Al Ain Groundwater Rise and Mitigation Measures
The project is funded by Abu Dhabi Executive Council with a total of \$ 657,000.
- 2009-2010 **Technical Team Leader**, Development of Water Supply Emergency Plan
The project is funded by Abu Dhabi Executive Council with a total of \$ 450,000.
- 2011-2012 **Principle Investigator**, Assessment of Marginal Water Use in Abu Dhabi Emirate, UAE
The project is funded by Environment Agency – Abu Dhabi.
- 2010-2011 **Principle Investigator**, Water Saving Campaign in Abu Dhabi Emirate.
The project is funded by Abu Dhabi Executive Council with a total of \$ 3,100,000.
- 2009-2010 **Principle Investigator**, Changing Green Landscape to Desert/Hard Landscape in Abu Dhabi Emirate
The project is funded by Abu Dhabi Executive Council with a total of \$ 1,160,000.
- 2010-2011 **Principle Investigator**, Groundwater Exploration Using Airborne Radar Tech. (with NASA).
The project is funded by Abu Dhabi Executive Council with a total of \$ 2,340,000.
- 2009-2010 **Technical Team Leader**, Climate Change: Impacts, Vulnerability and Adaptation in Abu Dhabi Emirate.
- 2008-2009 **Principle Investigator**, Environmental Impact Assessment of Desalination on Arabian Gulf Water Quality.
- 2006-2007 **Technical Team Leader**, Design and Implementation of Abu Dhabi Groundwater Monitoring Network
- 2005-2007 **Principle Investigator**, Development of Abu Dhabi Water Master Plan, in collaboration with ICBA, Dubai, UAE.
The project is funded by Abu Dhabi Executive Council with a total of \$ 970,000.
- 2005-2006 **Technical Team Leader**, Assessment of Fertilizers and Pesticides Residues in Groundwater in UAE
- 2004-2004 **Technical Team Leader**, Al Ain Forestry Sector Improvement Plan
- 2003-2005 **Technical Team Leader**, Conservation and Management of Al Wathba Wetland Reserve using Treated Wastewater



2002 - 2003 Senior Water Resources Specialist, Dar Al Handasah Consultants, Beirut, Lebanon (Full Time)

- 2002-2003 **Project Manager**, Groundwater Drainage for Dubai International Airport (Ter3)
The project is funded by Dubai Government with a total of \$ 1,260,000.
- 2002-2003 **Project Manager**, Water Resources Supply and Urban Management Plan for Yobe State, Nigeria.
The project is funded by World Bank with a total of \$ 5,812,000.
- 2002-2002 **Project Manager**, Water Resources Management Plan for Al Kharj Basin, Kingdom of Saudi Arabia (KSA).
The project is funded by World Bank with a total of \$ 635,000.
- 2001-2002 **Technical Team Member**, Urban Management Plan for Astana City, Kazakhstan.
The project is funded by Kazakhstan Government with a total of \$ 3,150,000.
- 2001-2002 **Technical Team Member**, Design of Small Canals and Irrigation Structures, Mali.
The project is funded by Mali Government.



National Water Research Center (NWRC), Egypt

- 1993 - 1997 : Researcher Assistant**
1997-2001 : Assistant Researcher
2001-2005 : Researcher
2005-2011 : Associate Professor
2011-Pres : Professor

- 2000-2002 Artificial Recharge for groundwater aquifer using treated wastewater at Abu Rawash Aarea
- 1997-2001 Nag Hammadi barrage project - Egypt
- 1997-2001 Rehabilitation of Assuit barrage project - Egypt
- 1998-2000 Numerical simulation for groundwater flow and solute transport for Nile valley Aquifer system
- 1998-1999 Integrated management for non-conventional water resources
- 1995-1997 National water resources plan for Egypt
- 1996-1996 Assessment of impacts of wastewater ponds on groundwater at 10th of Ramadan City.
- 1996-1996 Conjunctive use of surface water and groundwater for urban development
- 1995-1996 Environmental impact assessment of new El Saff canal
- 1994-1998 The Hydrogeological Map of Egypt
- 1995-1996 New lands agricultural services project (NLASP) in Egypt
- 1994-1998 Groundwater quality monitoring network
- 1994-1996 Groundwater assessment if wadi Al Assuiti
- 1994-1995 Assessment of groundwater aquifers potentiality in Upper Egypt.

3. Teaching Experiences

- 2009-2011 Teaching the groundwater and water resources management course for undergraduate students (Al Hosn University, Abu Dhabi, UAE).
- 2001-2002 Teaching the groundwater and water resources management course for undergraduate students (Al Azher University).

- 2002-2003 Teaching various courses in the field of hydrology, groundwater and water resources management for undergraduate students (Assuit University).
- 2002–pres. Supervising Ten M.Sc. dissertations and Five Ph.D. thesis in the field of urban pollution, sustainable and integrated water resources management, reuse of wastewater in irrigation, artificial recharge for groundwater aquifers and water resources demand management (Ain Shams University, Assuit University, UAEU, and The Environmental Studies and Research Institute).
- 2001-2003 Drew up and presented many training workshops on water resources, irrigation, and Environmental Impact Assessment (EIA) of urban development and agriculture projects in developing countries with an emphasis on practical case examples. The participants were junior engineers from a wide variety of technical backgrounds, experience and developing countries at the International Training Center, Egypt (Ministry of Water Resources and Irrigation and UNESCO).

4. Thesis Supervision and Defence

PhD and Master Degree theses supervisor and member of defence committees for more than 15 thesis in the following universities:

- Ain Shams University, Egypt.
- Cairo University, Egypt.
- Al Azhr University, Egypt,
- United Arab Emirates University, UAE
- Massey University, New Zealand
- University of Aberdeen, UK

International Peer Reviewed Journals

1. Editor

- Water Science ((Taylor & Francis)
- African Journal of Agriculture Research, (Academic Journals)
- Member of Editorial Advisory Board, African Geosciences Review, Paris – FRANCE

2. Reviewer

- Water Policy (IWA)
- Desalination and Water Treatment
- Agricultural Water Management (Elsevier)
- International Journal of Water Resources Management (Springer)
- Journal of Environmental Management (Elsevier)
- Journal of Desalination (Elsevier)
- Journal of Environmental Monitoring and Assessment (Springer)
- Journal of Arid Environment (Elsevier)
- International Journal of Soil Science and Environmental Management
- African Journal of Agricultural Research
- Arid Land Research and Management (Taylor & Francis)
- International Journal of Agricultural and Soil Science
- Journal of Maps (Taylor & Francis)
- Arabian Journal of Geosciences (Springer)
- International Journal of Ecology and Eco-solution
- Journal of Ecology and the Natural Environment
- Comprehensive Research Journal of Agricultural Science
- Journal of Environmental Chemistry and Ecotoxicology
- Global Research Journal of Agricultural and Biological Sciences

Awards and Prizes

- 2019 Al Danah Award for Best Project Management (Project: Groundwater Wells Inventory for Abu Dhabi)
- 2018 Best Design of Small Scale Solar Powered RO Desalination Plants for Farming, Oman Water Society, Oman.
- 2017 Al Danah Award for the Best Scientist in Abu Dhabi Government
- 2016 Leadership Award for Outstanding Contribution to Water Efficiency, World CSR Congress, Mumbai, India.
- 2014 Best Paper Award, Water Desalination Conference in The Arab Countries (Arwadex 2014), KSA.
- 2011 National Academies-USA as one of best four young Arab Water Scientists.
- 2011 HH Sheikh Sultan Ben Zayed Award-Economic Development Branch.
- 2010 Best Research about Water Conservation, King Abdulaziz University (KAU), Jeddah, KSA
- 2009 Abu Dhabi Excellence Award-Best Project Management Branch (Project: Strategic Water Reserve at Liwa)
- 2007 Employee of The Year, Environmental Agency – Abu Dhabi.
- 2006 Best Research on Aquifer Storage and Recovery Technology, American University Manama (AUM), Bahrain.
- 2002 Ahmed Bahaa El Din Award for the Best Arabic Book in Science: Water Resources and their Role in Development in Arab Region (Ahmed Bahaa El Din Friends Group in cooperation with Al Ahram Egyptian Newspaper).
- 2001 The Best Published Paper Award in the field of mitigation measures for environmental problems related to water resources management (National Water Research Center, Cairo, Egypt).
- 2000 The Best Published Paper Award in the field of Integrated Water Resources Management (Water Council in the occasion of the world water day 22 March 2000).
- 1999 The Best Young Speaker Award in the International Conference on Integrated Management of Water Resources in the 21st Century (National Water Research Center, Cairo, Egypt)

Languages

	Speaking	Writing	Reading
Arabic	Mother Tongue		
English	Fluent	Fluent	Fluent
French	Fair	Fair	Fair

Professional Affiliations

- World Association of Soil and Water Conservation (WASWAC).
- International Association of Hydrological Sciences (IAH).
- Water Quality Association (WQA)
- Arab Water Council (AWC)
- Arab Water Academy (AWA)
- International Water Association (IWA)
- International Desalination association (IDA)
- American Society of Agronomy (ASA)
- Crop Science Society of America (CSCA)
- American Society of Agricultural and Biological Engineers (ASABE)

- Institute for Agriculture and Trade Policy (IATP)

National Committees

- Advisory Board Member, Desalination Excellence Center, Abu Dhabi, UAE
- Member and Secretariat, Higher Committee for Water and Agriculture Strategy Implementation, Abu Dhabi-UAE
- Member of Technical Committee for Integrated Aquaculture in Abu Dhabi Emirate
- Member of Technical Committee for Strategic Water Reserve in UAE
- Member of Technical Committee for the Development of Abu Dhabi Agricultural and Food Security Policy.
- Member of Selection Committee for Zayed Sustainability Prize (Water and Food Them).
- Member of Organizing Committee for Abu Dhabi Sustainability Week (ADSW), (Water and Food Them).
- Member of Scientific Committee for Cairo Water Week (CWW)

International Workshops and Conference (2020 Only)

9 July 2020	Ensuring Food Security & Sustainability: Innovation and Business Opportunities of Agriculture, in SMEs, FAO, Rome, Italy
22-24 June 2020	Stakeholder consultation on WAAM (Water Accounting, Assessment and Water Management-Big Lift) in MENA region, International Water Management Institute-MENA
19-20 June 2020	MENA Food Security and Agriculture; DigiConference – AGRI and ICBA
17 June 2020	UN World Water Development Report 2020; Water and Climate Change: Arab Regional Webinar, UNESCO, Cairo Office.
26 May 2020	Saline Agriculture: Scaling up opportunities and challenges, FAO, Rome, Italy
12-13 Feb. 2020	Regional Capacity Building Action Plan on Water Scarcity for Utilities through WOPS in the MENA Region, Global Water Operators' Partnerships Alliance – UN-Habitat (GWOPA)
13-16 Jan. 2020	Water Sustainability Forum, Abu Dhabi Sustainability Week (ADSW), UAE.
20-21 Nov. 2019	Climate Change Impacts on Agriculture, Global Forum on Innovations for Marginal Environments.
20-24 Oct. 2019	2 nd Cairo Water Week 2019, Cairo, Egypt.

Publications

1. Books

- 2019 Abu Dhabi Groundwater Atlas, Environment Agency – Abu Dhabi, UAE.
- 2017 Manual of Using UAE Native Plant Species in recreational landscaping in Abu Dhabi, Al Ain Municipality, UAE.
- 2016 Strategic Water Reserve in Arid Region, Environment Agency – Abu Dhabi, UAE.
- 2009 Abu Dhabi Water Master Plan, Environment Agency – Abu Dhabi, UAE.
- 2009 Water Resources Security in the Arab Countries (in Arabic), Zayed International Prize for Environment.
- 2008 Towards Sustainable an Integrated Water Resources Management in GCC Countries, Strategic Studies Series, Emirates Center for Strategic Research and Studies, Abu Dhabi, UAE (in Arabic)
- 2007 Facing Water Scarcity Problems in the GCC Courtiers: Challenges and Opportunities, Gulf Research Center (RGC), Dubai, UAE.

2007 Water Security, Studies and Research Center Dubai Police Academy (in Arabic with others).

2. Book Chapters

- 2023 The Role of Groundwater Aquifers Artificial Recharge in Water Resources Management in Egypt' in Artificial Recharge to Groundwater and Rain Water Harvesting: Issues and Learning from the Developing Countries.
- 2021 Future growth in the desalination industry in Middle East Region, Desalination Research Progress, 2021, pp. 161–185
- 2020 From Desert Farm to Fork: Value chain development for innovative Salicornia-based food products – A case study in the United Arab Emirates
- 2018 Climate Change Impacts on Water Resources in UAE, in Climate Change and the Future of Water Resources, The Emirates Center for Strategic Studies and Research, Abu Dhabi, UAE.
- 2017 Water, Energy, and Food Security Nexus in the West Asian Region; in Water-Energy-Food Nexus: Principles and Practices, Edited by: P. Abdul Salam, Sangam Shrestha, Vishnu Prasad Pandey and Anil Kumar Anal, American Geophysical Union
- 2013 Water Security in UAE: Challenges and Opportunities, in Water and Food Security in the Arabian Gulf, The Emirates Center for Strategic Studies and Research, Abu Dhabi, UAE.
- 2011 Water Resources in Abu Dhabi Emirate; Environmental Atlas of Abu Dhabi Emirate, Environment Agency – Abu Dhabi, UAE.
- 2011 Water Resources Management, in Abu Dhabi Soil Atlas, Environment Agency – Abu Dhabi, UAE.
- 2008 Future Growth in the Desalination Industry in Middle East Region, in Desalination Research Progress, Edited by: Daniel J. Delgado and Pablo Moreno, Nova Science Publishers.

3. Selected Peer Reviewed Papers (International Journals)

1. Mansoor Al-Tamimi, Steve Green, Wasel Abou Dahr, Ahmed Al-Muaini, Dionysia Lyra, Khalil Ammar, Mohamed Dawoud, Paul Kenyon, Peter Kemp, Lesley Kennedy, 2023, Devices to Measure the Impacts on Groundwater Salinity from Irrigating Halophytic Crops with Brackish Waters in a Hyper-Arid Environment, Arid Land Research and Management.
2. Mansoor Al-Tamimi, Steve Green, Wasel Abou Dahr, Ahmed Al-Muaini, Dionysia Lyra, Khalil Ammar, Mohamed Dawoud, Paul Kenyon, Peter Kemp, Lesley Kennedy, 2023, Drainage, salt-leaching impacts, and the growth of *Salicornia bigelovii* irrigated with different saline waters, Agricultural Water Management, Volume 289 (2023) 108512.
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5. Technical Reports

Dr. Dawoud shared as author and co-author in more than 100 working technical and scientific reports on water resources, agriculture, climate change, desalination, reuse of TSE, water resources demand and irrigation and drainage.

Skills

1. Projects Management and Planning

- Developing long, medium, and short term funding strategies

- Revision of annual budget and ensuring timely and effective reporting on fund distribution.
- Resource mobilization and fundraising
- Tenders evaluation and undertaking the evaluation of technical and financial proposals for contracts relating to project implementation;
- Development and reviewing of projects workplan and budget;
- Preparing and participating in technical meetings, seminars, conferences and workshops at national, regional and international scale; and
- Preparing reports, and technical papers for discussion and/or publications.

2. Communications

- Excellent communication skills both oral and written (in Arabic and English).
- Developing and maintaining contacts with competent institutions, international organizations, government authorities, donors, universities, research centers, NGO and private sector officials for coordination of work programs, capacity building projects and exchange of information.
- Excellent networking and relationships with policymakers and decision makers in many countries.
- Working with integrated multi-disciplinary teams carrying out various projects related to water, agriculture, climate change, environment and infrastructure.
- Working harmoniously with people of different national and cultural backgrounds.

3. Computer Skills

- Well-developed computer skills including MS Word, Excel, Power Point, GIS, Numerical Modelling, and Databases.
- Excellent drafting ability including preparing of reporting, hydrographs, mapping, ..etc.

Models and Software Development

- A GIS Based Supply Demand Model
- A GIS Based database
- Two-Dimensional Numerical Model for simulating t
- A computer program to calculate the Geostatistical functions, autocorrelation, autocovariance and semi-variance for spatial variability studies.
- Computer programs to calculate soil hydraulic properties from soil particle or pore size distributions.
- A dynamic model to estimate shallow water table contribution to the actual evapotranspiration and crop water requirements.