

Salem Ali Al Jabri

Associate Professor of Soil Physics



1. PERSONAL DETAILS

Full name	Salem Ali Mattar Al Jabri
Present position	Associate Professor of Soil Physics and Water Resources
Contact address	Department of Soils, Water and agricultural Engineering College of Agricultural and Marine Sciences Sultan Qaboos University, PO Box 34, Al-Khod 123, Oman Phone: 2414 3629; Fax: (968) 2441 4318; Email: salemj@squ.edu.om
Date of appointment	01 September 1992
Academic Degrees	PhD , Water Resources Management, Iowa State University, Ames, IA, USA (2000 - 2004)
	MSc. in Soil and Water Sciences, The University of Arizona, Tucson, AZ, USA (1993 - 1995)
	BSc. in Soil and Water Sciences, Sultan Qaboos University, Muscat, Sultanate of Oman (1988 - 1992)
Work experience (Position and Dates)	Associate Professor (SQU) , 2019 – Present
	Assistant Professor (SQU) , 2001 – 2019
	Assistant Dean for Community Services (SQU) , 2001 – 2006
	Assistant Lecturer (SQU) , 1992 – 1993, 1995 – 1997
Research Interests and Professional Expertise	<ul style="list-style-type: none"> – In situ estimation of soil hydraulic and chemical transport properties – Vadose zone hydrology – Groundwater hydrology – Water resources management – Modeling transport of masses in vadose and groundwater systems – Heat transfer in soils – Desalination for agriculture
Websites	<ul style="list-style-type: none"> – https://scholar.google.com/citations?user=eJRb20IAAAAJ&hl=en – https://squ.pure.elsevier.com/en/persons/salem-al-jabri – https://www.researchgate.net/profile/Salem-Al-Jabri

2. TEACHING	
Teaching courses	
Undergraduate-level courses	Graduate-level courses
1. SWAE2201 Introduction to Soils and Water 2. SWAE3303 Elements of Hydrology 3. SWAE3311 Environmental Soil Physics 4. SWAE4217 Transport of Chemicals in Porous Media 5. CAMS3000 Seminar and Presentation Skills (College required)	6. SWAE6009 Advanced topics in SWAE 7. SWAE6405 Integrated Water Resources Management (50% of coursework) 8. SWAE6406 Vadose Zone Hydrology

3. SCHOLARLY ACTIVITIES	
Selected Refereed Journal Publications	
1	Youngs, E.G., and S.A. Al Jabri. 2018. Transient water-table recession in drained lands modeled using HYDRUS and compared with theoretical analyses assuming a succession of momentarily steady states. <i>J. Irrig. Drain. Eng.</i> 144(1): 04017054. DOI: 10.1061/(ASCE)IR.1943-4774.0001263
2	Al Jabri, S.A., and E.G. Youngs. 2015. Steady-state water tables in drained lands modeled using the HYDRUS package and compared with theoretical analyses. <i>J. Irrig. Drain. Eng.</i> 141(19): 04015010. DOI: 10.1061/(ASCE)IR.1943-4774.0000881
3	Al Jabri, S.A., S. Zekri, D. Zarzo, and M. Ahmed. 2019. Comparative analysis of economic and institutional aspects of desalination for agriculture in the Sultanate of Oman and Spain. <i>DESWATER</i> 156: 1-6. DOI: 10.5004/dwt.2019.24066
4	Al Jabri, S.A., and M. Ahmed. 2017. Use of renewable energy for desalination in urban agriculture in the GCC countries: Possibilities and Challenges. <i>SQU J. Ag. & M. Sci.</i> 22(1): 48-57.
5	Al Jabri, S.A., and R.A. Al-Yahyai. 2017. Plant-soil approach for irrigation scheduling of mango trees in the Sultanate of Oman. <i>Acta Horticulturae</i> , 1150: 153-158. DOI:10.17660/ActaHortic.2017.1150.22
6	Al Jabri, S.A., H.A. Abdel Rahman, and A.M. Ibrahim. 2015. Agricultural polymers revisited: Salinity interactions and soil-water conservation. <i>Comm. in Soil Sci. and Plant Analysis</i> . 46(21): 2661-2674. DOI: 10.1080/00103624.2015.1089267
7	Al Jabri, S.A., M. Ahmed, and B. S. Choudri. 2015. Prospects of Desalination for Irrigation Water in the Sultanate of Oman. <i>Journal of Water Reuse and Desalination</i> . 5(3): 430-436. DOI:10.2166/wrd.2015.123
8	Kaakeh, W., F.A. Talukder, J.H. Aldahmani, M. Maraqa, M.L. Deadman, S.A. Al Jabri, A. Al-Saadi, A.A. Al-Raesi, H. Al Hasani, L. Al-Subhi, and A.A. Bosamrah. 2007. Assessment of pest and pesticide trends in vegetable crops in the United Arab Emirates and Sultanate of Oman. <i>Pak. J. Sci. and Indust. Res.</i> 50(5): 346-35
9	Al Jabri, S.A., J.H. Lee, A. Gaur, R. Horton, and D.B. Jaynes. 2006. A dripper-TDR method for in situ determination of hydraulic conductivity and chemical transport properties of surface soils. <i>Advances in Water Resources</i> . 29(2): 239-249. DOI: 10.1016/j.advwatres.2004.12.016
10	Gaur A., R. Horton, D.B. Jaynes, J.H. Lee, and S.A. Al Jabri. 2003. Using surface time domain reflectometry measurements to estimate subsurface chemical movement. <i>Vadose Zone J.</i> 2(4): 539-543.

	Refereed Conference Papers/ Proceedings/ Books and Chapters in Books
1	Al Jabri, S., and M. Ahmed. 2014. Prospects of Desalination for Irrigation Water in the Sultanate of Oman. In: International Conference on Desalination, Environment, and Marine Outfall Systems. Sultan Qaboos University. Muscat, Sultanate of Oman.
2	Ahmed, M., S. Al Jabri and M. Al-Haddabi. 2017. Use of membrane Technology in Non-Traditional Sectors in Oman. Proceedings of IDA World Congress, Oct 15-20, 2017, Sao Paulo Brazil.
3	Deadman, M., J. Perret, S.A. Al Jabri, Y.M. Al Maqbali, A.M. Al-Sa'di, K. Al Kiyoomi, and H. Al Hasani. 2007. Epidemiology of damping-off disease in greenhouse cucumber crops in the Sultanate of Oman. <i>Acta Horticulturae</i> . 731:319-326. DOI: 10.17660/ActaHortic.2007.731.43

	Conference Abstracts /Poster
1	Ahmed, M., M. Baawain, S.A. Al Jabri, A. Al-Busaidi, S. Al-Lawati and B.S. Choudri. 2016. Small-scale wastewater treatment systems and reuse studies in Oman. Proceedings of 13th IWA Specialized Conference on Small Water & Wastewater Systems, 14-17 September 2016, Athens, Greece.
2	Al Jabri, S.A., and M. Ahmed. 2014. Desalination for agriculture in the Sultanate of Oman: Challenges and opportunities. Proceedings of the conference on 'use of unconventional water in urban water management'. MRMWR, Oman and RCUWM-Tehran. 24-26 Feb, Muscat, Oman.
3	Al Jabri, S.A., and M. Ahmed. 2014. Prospects of desalination for irrigation water in the Sultanate of Oman. In: International conference on desalination, environment and marine outfall systems, p. 22. Sultan Qaboos University, Muscat, Oman.
4	Deadman, M.L., N. Al Habsi, S.A. Al Jabri, and A.M. Al Sa'di. 2007. Salinity – pathogen interactions in damping-off development in greenhouse cucumber in Oman. <i>Phytopathology</i> , 97:S26-S27

	Book Chapters
1	Ahmed, M., S.A. Al Jabri, and B.S. Choudri. 2015. Green challenges and some technological solutions in the water sector of the GCC countries. In: M.A. Raouf and M. Luomi (eds.), <i>The Green Economy in the Gulf</i> , Routledge, Taylor & Francis Group, p 123-144.
2	Al-Shidhani, B., M. Ahmed, S.A. Al Jabri, and F. Talukder. 2013. Application of a Screening Model to Evaluate Pesticide Contamination in Soil and Groundwater for Sustainable Agriculture in Oman. In: <i>Developments in Soil Classification, Land Use Planning and Policy Implications</i> , pp. 753-767, Springer Netherlands.

Research projects - Selected						
#	Role	Year/ Completion	Project title	Fund by	Fund value	
					OMR	USD
1	Co-PI	2017/Completed	Assessment of Virtual Water in exported date palm and fodder grass grown and Assessment of Water Footprints of Muscat population	SQU Internal Grants	4,500	11,600
2	PI	2015/Completed	Desalination for Agriculture	AFDF	30,000	77,300
3	Co-Inv	2021 In Progress	Monitoring Groundwater Using Energy Water Smart Meters and Precision Irrigation	His Majesty Fund, SQU	73,000	190,000
4	PI	2011/Completed	Plant-soil approach to irrigation scheduling of fruit crops	Internal Grant, SQU, Oman	8,000	20,600
5	Co-Inv	Completed	Management of salt-affected soils and water for sustainable agriculture	His Majesty Fund, SQU	103,500	266,700

Collaborations and Consultancies		
Collaborators	Institute/University/Organization	Country
1- Rober J. Horton	ISU	Ames, IW, USA